4 ū 2 FILE WPIDS' ENTERED AT 17:01:15 ON 03 JAN 1999 COPYRIGHT (C) 1999 DERWENT INFORMATION LTD FILE 'BIOSIS' ENTERED AT 17:01:15 ON 03 JAN 1999 COPYRIGHT (C) 1999 BIOSIS(R) FULL ESTIMATED COST 6 L5 404 L4 AND (ANTIBOD? OR MONOCLON? OR CHIMERIC(W) ANTIBOD? OR chimeric(w)monoclon?) => s I4 and (antibod? or monoclon? or chimeric(w)antibod? or => s |1 and |2 => s fc.epsilon. or ige(w)receptor => s mast cell => s fc.epsilon.ri FILE 'CANCERLIT ENTERED AT 17:01:15 ON 03 JAN 1999 FILE 'MEDLINE' ENTERED AT 17:01:15 ON 03 JAN 1999 COST IN U.S. DOLLARS => file medline cancerlit biosis embase wpids SET COMMAND COMPLETED => set plurals on FILE 'HOME' ENTERED AT 16:59:36 ON 03 JAN 1999 \*\*\*\*\*\*\* Welcome to STN International \*\*\*\*\*\*\*\* L8 ANSWER 1 OF 22 MEDLINE ACCESSION NUMBER: 1988196410 MEDLINE DOCUMENT NUMBER: 98196410 8 => s t7 and (inhibit? or reduc? or ameliorat? or compet?) ENTER L# LIST OR (END): 16 => d l8 1-22 ibib ab PROCESSING COMPLETED FOR L6 3 FILES SEARCHED...
1 2224 FC.EPSILON.RI : 'EMBASE' ENTERED AT 17:01:15 ON 03 JAN 1999
'YRIGHT (C) 1999 Elsevier Science B.V. All rights reserved. 15 and (allerg?) 62101 MAST CELL 1244 L1 AND L2 6557 FC.EPSILON. OR IGE(W) RECEPTOR 101 L5 AND (ALLERG?) 22 L7 AND (INHIBIT? OR REDUC? OR AMELIORAT? OR COMPET?) 52 DUP REM L6 (49 DUPLICATES REMOVED) CHIMERIC(W) MONOCLON?) Is tyrosine kinase activation involved in basophil SINCE FILE ENTRY SESSION 0.45 TOTAL

Journal code: I2V, ISSN: 0022-1007
PUB. COUNTRY: United States Galli S J; Kinet J P

CORPORATE SOURCE: Department of Pathology, Beth Israel Deaconess

Medical Center, Boston, Massachusetts 02215, USA. L8 ANSWER 2 OF 22 MEDLINE
ACCESSION NUMBER: 97477414 MEDLINE
DOCUMENT NUMBER: 97477414 FILE SEGMENT: PUB. COUNTRY: CORPORATE SOURCE: FILE SEGMENT: SOURCE CONTRACT NUMBER: CA/AI-72074 (NCI) ENTRY WEEK: ENTRY MONTH: AB Signaling through the high affinity receptor for immunoglobulin E ( ENTRY WEEK: ENTRY MONTH: LANGUAGE: Fc epsilon RI) results in the coordinate activation of tyrosine kinases before calcium mobilization. Receptors capable of interfering with the signaling of antigen that tyrosine kinases are not as important in this disease as in atopic asthma, and is consistent with the view that histamine tyrosine kinase activation, but not on protein kinase C (serine/threonine kinase) activation. The lack of specific effect on of InhIbition of PA-induced histamine release (25.3% vs affect histamine release by either anti-IgE or grass pollen.
Pretreatment with MDHC partially Inhibited PA-induced histamine release from basophils of 6/9 patients with red cedar the protein kinase C inhibitor staurosporine did not reversed by washing the cells in buffer, while the inactive stereoisomer of MDHC did not affect histamine release. In contrast, 0.01). Inhibition was concentration-dependent and could be basophils triggered by anti-IgE (29.8% inhibition; n = 15; P < 0.01) or grass pollen (48% inhibition; n = 6; P < in PA-induced histamine release from human basophils. Pretreatment were used to study the role of tyrosine and serine/threonine kinases this response remain unclear. Specific kinase inhibitors on exposure to plicatic acid (PA), but the mechanisms underlying release in red cedar asthma is largely lgE-independent. plicatic acid-induced histamine release in basophils obtained from 33.8%; P = NS). Thus, signal transduction of the human basophil asthma (25.4% vs 33.8%; P = NS). Staurosporine gave a similar level 2,5-dihydroxy-cinnamate (MDHC) attenuated histamine release from with the tyrosine kinase inhibitor methyl histamine release from basophils and mast cells epsilon RI-mediated mast cell antibodies recognizing CD81 inhibit Fc diminished calcium mobilization. Here, we show that receptors, such as Fc epsilon RI, patients with occupational asthma due to western red cedar suggests Fc epsilon RI appears to depend upon Occupational asthma due to western red cedar is associated with degranulation but, surprisingly, without affecting recruit tyrosine and inositol phosphatases that results in RI-mediated degranulation by CD81.

Fleming T J; Donnadieu E; Song C H; Laethem F V; University of British Columbia, Canada. ALLERGY, (1998 Feb) 53 (2) 139-43. Journal code: 39C. ISSN: 0105-4538. Journal; Article; (JOURNAL ARTICLE) (8) 1307-14. GM-53950 (NIGMS)
JOURNAL OF EXPERIMENTAL MEDICINE, (1997 Oct 20) Journal; Article; (JOURNAL ARTICLE) 4I/CA-23990 (NIAID) Negative regulation of Fc epsilon Frew A; Chan H; Salari H; Chan-Yeung M English English 19980705 Denmark Priority Journals 19980104 Priority Journals; Cancer Journals 199801 Department of Medicine Vancouver General Hospital,

> unsuspected calcium-independent pathway of antigen receptor regulation, which is accessible to engagement by membrane proteins cell degranulation in vivo as measured by reduced aggregation-dependent tyrosine phosphorylation, calcium mobilization, or leukotriene synthesis. Furthermore, CD81 and on which novel therapeutic approaches to allergic passive cutaneous anaphylaxis responses. These results reveal an antibodies also Inhibit mast diseases could be based.

09/090,375

histamine release in asthma due to western red

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AUTHOR: L8 ANSWER 3 OF 22 MEDLINE DOCUMENT NUMBER: 97166096 CORPORATE SOURCE: Johns Hopkins Asthma and Allergy Center antibody. RI expression on human basophils during in P M; Togias A; McKenzie-White J; Sterbinsky S A; Hamilton R G; Lichtenstein L M vivo treatment of atopic patients with anti-IgE Down-regulation of Fc(epsilon) ฟิลcGlashan D W Jr, Bochner B S; Adelman D C; Jardieu 97166096 MEDLINE

MD 21224, USA. dmacglas@welchlink.welch.jhu.edu CONTRACT NUMBER: AI07290 (NIAID) AI20253 (NIAID) PUB. COUNTRY: SOURCE JOURNAL OF IMMUNOLOGY, (1997 Feb 1) 158 (3) 1438-45. Journal code: IFB. ISSN: 0022-1767. United States

ENTRY MONTH: ENTRY WEEK: FILE SEGMENT: \_ANGUAGE: Treatment of allergic disease by decreasing circulating Cancer Journals Journal; Article; (JOURNAL ARTICLE) (CLINICAL TRIAL) English 19970404 Abridged Index Medicus Journals; Priority Journals; 199704

were approximately 220,000 receptors per basophil and after 3 mo of treatment, the densities had decreased to a median of 8,300 IgE with anti-IgE Abs is currently under clinical study. Based on previous unrelated studies, it appeared likely that Fc( 90%. One possible explanation for these results is that Fc response of the same cells to stimulation with dust mite Ag, The responsiveness of the cells to IgE-mediated stimulation using anti-IgE Ab was marginally decreased (approximately 40%) while the receptors per basophil. Flow cytometric studies, conducted in parallel, showed similar results and also showed in a subset of 3 pretreatment densities of Fc(epsilon)RI Fc(epsilon)RI on basophils. Median pretreatment levels and also resulted in a marked down-regulation of Treatment with the anti-IgE mAb decreased free IgE levels to 1% of (epsilon)RI on human basophils was examined in 15 subjects receiving humanized anti-IgE mAb intravenously. circulating IgE Ab. Therefore, the expression of IgE and Fc mast cells might also be regulated by levels of epsilon)RI expression on basophils and (epsllon)RI density is directly or indirectly Dermatophagoides farinae, was reduced by approximately donors that receptors decreased with a t1/2 of approximately 3 days. egulated by plasma-free IgE levels

186

Genovese A; Marone G

CORPORATE SOURCE: Division of Clinical Immunology and Allergy, Faculty of Medicine, University of Naples Federico II, Italy. L8 ANSWER 4 OF 22 MEDLINE ACCESSION NUMBER: 96354665 DOCUMENT NUMBER: 96354665 MMUNOLOGY, mast cells. (1996 Sep) 111 (1) 23-9 proinflammatory mediators from human basophils and Oxatomide inhibits the release of INTERNATIONAL ARCHIVES OF ALLERGY AND Patella V; de Crescenzo G; Marino O; Spadaro G;

MEDLINE

Journal code: HRC, ISSN: 0271-9142.
PUB. COUNTRY: United States Hsu D K; Zuraw B L; Liu F T

CORPORATE SOURCE: Department of Molecular & Experimental Medicine, L8 ANSWER 5 OF 22 MEDLINE ACCESSION NUMBER: 96159699 DOCUMENT NUMBER: 96159699 SOURCE: CONTRACT NUMBER: TRY MONTH: ANGUAGE: AUTHOR: PUB. COUNTRY: ENTRY MONTH: FILE SEGMENT: ANGUAGE galectin-3 through lectin-carbohydrate interactions. The antibody activity was specifically adsorbed by galectin-3 and protein A-conjugated Sepharose and was associated primarily with Galectin-3 is a beta-galactoside-binding animal lectin formerly called epsilon protein, Mac-2, carbohydrate binding protein 35, CBH 30, L-29, or L34. The possible occurrence of autoantibodies to found to be sharply elevated after hemicolectomy. Similar confirmed by immunoblotting showing binding of IgG to the 30-kD galectin-3 band. The relevant epitopes were in the galectin-3 subclass IgG1. The presence of the antibodies was lactose, suggesting that it is not a result of binding of IgG by anti-human IgG. The reaction was not inhibitable by wells incubated with test serum followed by HRPO-conjugated goat Unexpectedly, a control serum from an individual free of current allergic symptoms was found to have a significantly elevated level of IgG anti-galectin-3 by ELISA employing galectin-3-coated mediator release from mast cells or basophils. to IgE or Fc epsilon RI might produce galectin-3 was investigated because crosslinking of galectins bound preformed and de novo synthesized mediators from human basophils and or anti-IgE. These results demonstrate that OXA exerts anti-inflammatory activities by Inhibiting the release of InhIbition of histamine, tryptase and PGD2 release from HSMC immunologically challenged with a monoclonal (10-40%) histamine, tryptase and LTC4 release from HLMC activated by anti-IgE. In addition, OXA caused a concentration-dependent histamine and LTC4. OXA (10(-7)-10(-5) M) also inhibited human lung parenchyma (HLMC) and skin tissue (HSMC). Preincubation (15 min, 37 degrees C) of basophils with OXA (10(-7)-10(-5) M) before Der pl antigen or anti-tigE challenge concentration-dependently (10-40%) inhibited the immunologic release of characterized the effect of OXA on the immunologic release of allergic skin disorders, and bronchial asthma. We have the treatment of patients with allergic rhinitis, some and mast cells purified (from 10 to 82%) from (leukotriene C4:LTC4 and prostaglandin D2:PGD2) from human basophils preformed (histamine and tryptase) and de novo synthesized mediators N-terminal domain. The propositus was subsequently found to have denocarcinoma of the colon, and titers of IgG anti-galectin-3 were Oxatomide (OXA), a histamine H1 receptor antagonist, is effective in eceptor for IgE (anti-Fc epsilon RI) ntibody against the alpha chain of the high affinity Journal; Article; (JOURNAL ARTICLE)
English Evidence for IgG autoantibodies to galectin-3, a beta-galactoside-binding lectin (Mac-2, epsilon 329-37 in human serum. RR00833 (NCRR) binding protein, or carbohydrate binding protein 35) Journal; Article; (JOURNAL ARTICLE) Scripps Research Institute, La Jolla, California Journal code: BJ7. ISSN: 1018-2438. Mathews K P; Konstantinov K N; Kuwabara I; Hill P N; JOURNAL OF CLINICAL IMMUNOLOGY, (1995 Nov) 15 (6) English USA. Switzerland 199605 Priority Journals 199612 Priority Journals AI32834 (NIAID) MEDLINE

FILE SEGMENT: ENTRY MONTH: SOURCE: AUTHOR: Lowe J. Jardieu P. VanGorp K. Fei D T
CORPORATE SOURCE: Department of BioAnalytical Technology, South San
Francisco, CA 94080, USA. FILE SEGMENT: ENTRY MONTH: L8 ANSWER 7 OF 22 MEDLINE ACCESSION NUMBER: 95348516 CONTRACT NUMBER: G; Maglitto R; Stacker S A; Dunn A R
CORPORATE SOURCE: Ludwig Institute for Cancer Research, Melbourne PUB. COUNTRY: Netherlands ACCESSION NUMBER: 95348516
DOCUMENT NUMBER: 95348516 PUB. COUNTRY: LANGUAGE: DOCUMENT NUMBER: 96028104 L8 ANSWER 6 OF 22 MEDLINE presensitized for 2 h with human plasma containing IgE specific for ragweed and challenged with ragweed allergen in the presence of 50% D20. Histamine release plateaus at 0.1 micrograms/ml 3 A rat mast cell histamine assay (RMCHA) has been developed to quantitate the biological activity of a recombinant humanized, monoclonal anti-lgE antibody numbers of recirculating B lymphocytes, Lyn-t- mice are immunoglobulin M (IgM) hyperglobulinemic, Immune responses to T-independent antigens are affected Lyn-t- mice fail to mediate an allergic response to IgE cross-linking, indicating that activation of LYN plays an indispensable role in IC50 of 1.19 +/- 0.31 micrograms/ml (n = 25). Other humanized MAbs and recombinant human growth factors neither trigger histamine of ragweed. The release of histamine was time, temperature and Ca2+ dependent. This ragweed induced histamine release could be (rhuMAbE25). Rat mast cells (RBL 48), transfected with the alpha subunit of the high affinity human IgE complexes in the kidney, a pathology reminiscent of systemic lupus erythematosus. Collectively, these results implicate LYN as having severe glomerulonephritis caused by the deposition of IgG immune mast cell function. Despite reduced a trend for it to occur in older persons. pathogenesis of this autoimmune reaction is unclear, though there is antibodies at lower titers than the propositus. The Inhibited by rhuMAbE25 in a dose-dependent fashion with an receptor (Fc epsilon RI), were particularly in establishing B cell tolerance. an indispensable role in immunoglobulin-mediated signaling, have circulating autoreactive antibodies, and many show Fc epsilon RI signaling. Lyn-/- mice Mice homozygous for a disruption at the Lyn locus display abnormalities associated with the B lymphocyte lineage and in neoplasms have been found to have evidence of IgG anti-galectin-3 mast cells transfected with the Journal; Article; (JOURNAL ARTICLE) CELL, (1995 Oct 20) 83 (2) 301-11. Journal code: CQ4, ISSN: 0092-8674. (1) 113-22. alpha subunits of Fc epsilon Journal, Article; (JOURNAL ARTICLE) Lyn-deficient mice, culminating in autoimmune Journal code: IFE. ISSN: 0022-1759. ∕ictoría, Australia.. umour Biology Branch, Royal Melbourne Hospital, Allergen-induced histamine release in rat Multiple defects in the immune system of JOURNAL OF IMMUNOLOGICAL METHODS, (1995 Jul 17) Hibbs M L; Tarlinton D M; Armes J; Grail D; Hodgson United States 199511 Priority Journals; Cancer Journals 199602 Priority Journals; Cancer Journals A1-03958 96028104 MEDLINE MEDLINE

release nor inhibit ragweed-induced histamine release.

AUTHOR: Wang B; Rieger A; Kilgus O; Ochiai K; Maurer D; Fodinger D; Kinet J P; Stingl G
CORPORATE SOURCE: Department of Dermatology I, University of Vienna L8 ANSWER 9 OF 22 MEDLINE
ACCESSION NUMBER: 92235616 MEDLINE
DOCUMENT NUMBER: 92235616 Journal code: HS7, ISSN; 0021-9738, PUB. COUNTRY: United States ij ACCESSION NUMBER: 95164687
DOCUMENT NUMBER: 95164687 ENTRY MONTH: LANGUAGE: SOURCE AUTHOR:

Daeron M; Maibec O; Latour S; Arock M; Fridman W H
CORPORATE SOURCE: Laboratoire d'Immunologie Cellulaire et Clinique, L8 ANSWER 8 OF 22 MEDLINE ACCESSION NUMBER: 95164687 FILE SEGMENT: triggered by high-affinity receptors for IgE may be controlled by low-affinity receptors for IgG. This regulation of Fc disengagement. Both isoforms of wild-type Fc gamma RII were equally capable of Inhibiting Fc epsilon of triggering mediator release and was reversible upon and recombinant murine Fc gamma RII, we showed that constitutively expressed on mast cells and basophils. Using a model of stable transfectants in RBL-2H3 cells histamine release showed a good correlation between RMCHA and HBHA with a correlation coefficient of 0.69 (n = 37, p = 0.0001). We allergen-specific IgE and then challenged with standardized mite, D. farinae, house dust mix, standardized cat pelt, or physiology and in allergic pathology. activation is of potential interest in mast cell epsilon RI-mediated mast cell demonstrate that mast cell secretory responses provided they had an intact intracytoplasmic domain. Our results RI-mediated mast cell activation non-cross-linked Fc epsilon RI capable ligand. Inhibition of cross-linked receptors left RI be crosslinked to Fc gamma RII by the same multivalent Inhibition requires that Fc epsilon expressing endogeneous rat Fc epsilon RI RI to low-affinity IgG receptors (Fc gamma RII) which are inhibited by cross-linking Fc epsilon epsllon RI) by lgE and antigen. We report here that lgE-induced release of mediator and cytokine can be cell and basophil high-affinity IgE receptors (Fc lipidic mediators and of cytokines by inflammatory cells. The whole process is initiated by the aggregation of mast normally present in whole blood release in the absence of interfering proteins and growth factors unique opportunity to study the mechanism of IgE-mediated histamine monoclonal antibody. Moreover, RMCHA provides an conclude that RMCHA provides a useful tool to confirm allergen-specific IgE in allergIc patients and can Alternaria tenuis. Comparison of allergen-induced presensitized with human plasma containing the respective = 59, p < 0.0001). Histamine was also released when the cells were (HBHA) (Fei et al., 1994) with a correlation coefficient of 0.93 (n This RMCHA correlates well with the human basophil histamine assay oe used to evaluate the biological activity of any anti-IgE Allergic symptoms result from the release of granular and mast cell activation by murine Epidermal Langerhans cells from normal human skin bind monomeric IgE via Fc epsilon Journal; Article; (JOURNAL ARTICLE) 577-85 INSERM U255, Institut Curie, Paris, France.
JOURNAL OF CLINICAL INVESTIGATION, (1995 Feb) 95 (2) low-affinity IgG receptors. Cancer Journals Regulation of high-affinity IgE receptor-mediated English 199505 Abridged Index Medicus Journals; Priority Journals;

PUB. COUNTRY: 175 SOURCE: Journal; Article; (JOURNAL ARTICLE) Journal code: I2V. ISSN: 0022-1007 TRY: United States (5) 1353-65 JOURNAL OF EXPERIMENTAL MEDICINE, (1992 May 1)

FILE SEGMENT: ENTRY MONTH: AB Human epidermal Langerhans cells (LC) bearing IgE are found in either Fc epsilon RIVCD23 or Fc gamma RIVCD32, nor by the addition of lactose. However, binding could be entirely abrogated by immunohistology revealed that a majority of epidermal LC from normal skin of healthy individuals can specifically bind monomeric IgE. IgE disease states associated with hyperimmunoglobulinemia E. When studying the mechanism(s) underlying this phenomenon, tissue with monoclonal antibodies (mAb) against binding to LC could neither be prevented by preincubation of the Priority Journals; Cancer Journals 199207

preincubation with the anti-Fc epsilon RI alpha mAb 15-1, which interferes with IgE binding to Fc epsilon Rt alpha gamma transfectants.
These observations indicated that IgE binding to epidermal LC is

assumption gained support from our additional findings that (a) the majority of LC exhibited distinct surface immunolabeling with the anti-Fc epsilon RI alpha mAbs 15-1 and y CD23, CD32, or the D-galactose-specific IgE-binding protein. This mediated by Fc epsilon RI rather than

mAbs; and (b) transcripts for the alpha, beta, and gamma chains of Fc epsilon RI could be amplified by 19-1, but not with any of eight different anti-Fc epsilon RII/CD23

crosslinking on mast cells and basophils in preeminent role of Fc epsilon RI not of LC-depleted, epidermal cell suspensions. In view of the polymerase chain reaction from RNA preparations of LC-enriched, but

of allergic reactions after epicutaneous contact with epidermal LC may have important implications for our understanding triggering the synthesis and release of mediators of affergic reactions, the demonstration of this receptor on

ij DOCUMENT NUMBER: celis in degranulation of rat mucosal mast Immunologically activated chloride channels involved 92037520

L8 ANSWER 10 OF 22 ACCESSION NUMBER:

92037520

AUTHOR: Romanin C; Reinsprecht M; Pecht I; Schindler H

CORPORATE SOURCE: Institute for Biophysics, University of Linz, SOURCE: Austria.. EMBO JOURNAL, (1991 Dec) 10 (12) 3603-8.

3. COUNTRY: Journal code: EMB. ISSN: 0261-4189. VTRY: ENGLAND: United Kingdom Journal; Article; (JOURNAL ARTICLE)

ANGUAGE: Priority Journals

FILE SEGMENT: ENTRY MONTH: 199202

AB Crosslinking of type I Fc epsilon receptors (Fc mast cells initiates a cascade of processes epsilon RI) on the surface of basophils or

channels in rat mucosal-type mast cells (line correlation between mediator secretion and the activation of CIeading to the secretion of inflammatory mediators. We report here a

channels as detected by the patch-clamp technique. Channel activation occurred slowly, within minutes after stimulation. The epsilon RI, resulted in the activation of CI- ion RBL-2H3). Stimulation of RBL cells by either IgE and antigen or by a monoclonal antibody specific for the Fc

channel has a slope conductance of 32 pS at potentials between 0 and -100 mV, and an increasing open-state probability with increasing CI- channel activity and mediator secretion, as monitored by patches in tyrode solution. Parallel inhibition of both be mimicked without stimulation by isolating inside-out membrane depolarization. Activation of apparently the same CI- channels could serotonin release, was observed by two compounds, the CI- channel

> of channel current and of serotonin release suggests a functional CI- channels (IC50 = 15 microM) when applied to the cytoplasmic side of an inside-out membrane patch. The observed CI- channel activation mast cells studied role for this CI- channel in mediator secretion from the upon immunological stimulation and the parallel Inhibition found to Inhibit immunologically induced mediator half-maximal inhibition occurred at similar doses, at 52 the antigen-induced CI- current and the serotonin release, where blocker 5-nitro-2-(3-phenylpropylamino) benzoic acid (NPPB) and the secretion from RBL cells upon intracellular application, also blocks microM and 77 microM, respectively. The drug cromolyn, recently anti-allergic drug cromolyn, NPPB inhibited both

Ë ACCESSION NUMBER: 91114691
DOCUMENT NUMBER: 91114691 ANSWER 11 OF 22 MEDLINE Mapping of the high affinity Fc epsilon receptor 91114691 MEDLINE

CORPORATE SOURCE: Department of Chemical Immunology, Weizmann binding site to the third constant region domain Nissim A; Jouvin M H; Eshhar Z

SOURCE: of Science, Rehovot, Israel EMBO JOURNAL, (1991 Jan) 10 (1) 101-7

PUB. COUNTRY: Journal code: EMB. ISSN: 0261-4189. ENGLAND: United Kingdom

LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
English

FILE SEGMENT:

Priority Journals

L8 ANSWER 13 OF 22 BIOSIS COPYRIGHT 1999 BIOSIS

AB Identification of the precise region(s) on the IgE molecule that take part in the binding of IgE to its high affinity receptor ( ENTRY MONTH: Fc epsiton RI) may lead to the design of 199105

exon shuffling, we have expressed chimeric epsilon-heavy chain genes composed of a mouse (4-hydroxy-3-nitrophenyl)acetic acid (NP)-binding VH domain, and human C epsilon in which various domains to the rat Fc epsilon Rt. Employing normally does not bind to the rodent receptor, the ability to bind localize the Fc epsilon RI-binding domain of mouse IgE, we attempted to confer on human IgE, which IgE analogues able to block the allergic response. To

mouse IgE domain while maintaining the overall conformation of the molecule. All of the chimeric IgE molecules which contain the murine constant region domain did not impair either the binding capacity of site on IgE which is identical or very close to the Fc well as to monocional antibodies recognizing a C epsilon 3, bound equally to both the rodent and human receptor, as test the Fc epsilon RI-binding of each epsilon RI binding site. Deletion of the second

were replaced by their murine counterparts. This has enabled us to

L8 ANSWER 12 OF 22 BIOSIS COPYRIGHT 1999 BIOSIS with the Fc epsilon RI.

cell degradation. These results assign the third epsilon domain of IgE as the principal region involved in the interaction

the mutated IgE or its ability to mediate mast

ACCESSION NUMBER: 1997:170653 BIOSIS DOCUMENT NUMBER: PREV199799477256
TITLE: The effect of intravenous administration of a chimeric anti-lgE antibody on serum lgE levels in atopic subjects: Efficacy, safety, and

AUTHOR(S) Beatrice; Gygax, Daniel; Heusser, Christoph; Patalano, Francesco; Richardson, William; Kilchherr, Erich; Staehelin, Theophil; Davis, Frances; Gordon, pharmacokinetics. Wayne; Sun, Lee; Liou, Ruey; Wang, Georg; Chang, Lynette; Warner, Jane; Botta, Luigi; Grandordy, Corne, Jonathan (1); Djukanovic, Ratko; Thomas,

CORPORATE SOURCE: (1) Univ. Med., Centre Block, Southampton General No. 5, pp. 879-887 Hosp., Tremona Rd., Southampton SO16 6YD UK Tse-Wen; Holgate, Stephen Journal of Clinical Investigation, (1997) Vol. 99

LANGUAGE: DOCUMENT TYPE: IgE-expressing B cells but not to IgE bound to high affinity IgE receptors (Fc-epsilon-Ri) on IgE antibody that binds to free IgE and surface IgE of CGP 51901 is a non-anaphylactogenic mouse/human chimeric anti-human

ISSN: 0021-9738

English

comprised of free and complexed IgE, increased as stored and newly synthesized IgE bound to CGP 51901. Complexed IgE was eliminated at a rate comparable with the terminal half-life of free CGP 51901 dose-dependent manner, with suppression after 100 mg of CGP 51901 reaching gt 96%. Time of recovery to 50% of baseline IgE correlated a potential therapeutic approach to the treatment of atopic reducing serum IgE levels in atopic individuals and provides use of anti-human IgE antibody is safe and effective in (11-13 d at all doses). Only one subject showed a weak antibody response against CGP 51901. We conclude that the mean of 1.3 d for the 3 mg to 39 d for the 100 mg dose. Total IgE, with the dose of administered antibody and ranged from a CGP 51901 or placebo. The administration of CGP 51901 was well 100 mg of CGP 51901 was conducted in 33 pollen-sensitive subjects who had raised levels of serum IgE and received either intravenous placebo-controlled, single dose study with doses of 3, 10, 30, and mast cells and basophils or low affinity IgE tolerated and resulted in a decrease of serum free IgE levels in a receptors (Fc-epsilon-R2) on other cells. A phase 1 double-blind,

SOURCE: European Journal of Immunology, (1996) Vol. 26, No. 1, pp. 168-170. ISSN: 0014-2980. DOCUMENT TYPE: Article Monique; Benhamou, Marc; Pretolani, Marina (1)
CORPORATE SOURCE: (1) Unite Pharmacol. Cell., UA Inst. Pasteur/INSERM no. 285, rue du Dr. Roux, F-75015 Paris France ₽ ACCESSION NUMBER: 1996:108058 BIOSIS DOCUMENT NUMBER: PREV199698680193 LANGUAGE: Inhibited cytokine generation, without affecting beta-hexosaminidase and LTC-4-like material release. TNF-alpha, but beta-hexosaminidase and LTC-4-like material release. TNF-alpha, but not GM-CSF mRNA expression, was also diminished in mIL-10-treated BMMC, suggesting that down-regulation of cytokine production by mIL-10 involves different mechanisms. These results identify a (mlL-10) on antigen-induced beta-hexosaminidase, leukotriene (LT)C-4 and cytokine release from mouse bone marrow-derived mast cells (BMMC). BMMC sensitized to haptencolony-stimulating factor (GMCSF) mRNA expression and protein release. Incubation of BMMC with 1-100 ng/ml rmlL- 10 monoclonal IgE directed against dinitrophenol-bovine serum albumin (DNP-BSA) and challenged with 10 ng/ml DNP-BSA generated tumor necrosis factor-alpha (TNF-alpha) and granulocyte-macrophage beta-hexosaminidase and LTC-4-like material, which was followed by This report examines the effect of recombinant murine interleukin-10 from mast cells. Interleukin-10 inhibits cytokine generation English Arock, Michel; Zuany-Amorim, Claudia; Singer,

cytokine production by stimulated mast cells. novel biological action of IL-10 as an inhibitor of

RI+ cells through interaction with the V(H)3 secretion from human Fc.epsilon.

AUTHOR:

Patella V.; Giuliano A.; Bouvet J.-P.; Marone G.

CORPORATE SOURCE: Dr. G. Marone, Div. of Clinical Immunology/Allergy, University of Naples Federico II, Via S. Pansini 5, 80131 Napoli, Italy. marone@unina.it region of IgE

SOURCE (5647-5655). Journal of Immunology, (15 Nov 1998) 161/10

ISSN: 0022-1767 CODEN: JOIMA3

COUNTRY: Un DOCUMENT TYPE: LANGUAGE: English
SUMMARY LANGUAGE: English
AB 1.18 has been shown that activation of protein tyrosine kinases is SOURCE: CORPORATE SOURCE: W.S.F. Wong, Department of Pharmacology, Faculty AUTHOR: L8 ANSWER 15 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998307954 EMBASE SUMMARY LANGUAGE: English FILE SEGMENT: DOCUMENT TYPE: ELE SEGMENT: cell. Following tyrosine kinase activation, a family of mitogen-activated protein kinases (MAPKs) was found to be activated as well. The present study examined the role of MAPK signalling in the presence of PD 098059 than the vehicle control in a concentration-dependent manner. 4. These observations corroborate peptidoleukotrienes from chopped lung preparations were studied. 3. PD 098059 (10-50. mu.M) produced only minor reduction of were passively sensitized with IgG antibody raised against ovalburnin (OA). Effects of PD 098059 on OA-induced anaphylactic cascade in in vitro model of allergic asthma using a specific MAPK kinase inhibitor PD 098059. 2. Guinea-pigs epsilon.RI cross-linking on mast the earliest detectable signalling response to Fc. Fc.epsilon.Ri+ cells. acts as an endogenous superallergen, interacts with the V(H)3 domain of IgE to induce the synthesis and release of IL-4 from human and histamine induced by pFv. These results indicate that pFv, which lung mast cells. In contrast, V(H)6+ his treatment. Three human V(H)3+ monoclonal IgM concentration-dependently inhibited pFv-induced secretion of IL-4 and histamine from basophils and of histamine from human of Fc.epsilon.RI was unaffected by tacrolimus. Basophils from which IgE had been dissociated by brief exposure to lactic acid no longer released IL-4 in response to pFv .+., 1.5 min) than for IL-4 release (79.5 .+., 8.5 min; p < 0.01). IL-4 mRNA, constitutively present in basophils, was increased after 0.001). There was also a correlation ( $r(s)=0.58;\ p<0.01)$  between the maximum pFv- and anti-IgE-induced IL-4 release from basophils. basophils. pFv is a potent stimulus for histamine and IL-4 release from purified basophils. Histamine and IL-4 secretion from basophils intestinal tract in patients with viral hepatitis, induces mediator monoclonal IgM did not inhibit the release of iL-4 and anti-lgE. The response to an mAb cross-linking the .alpha.-chain stimulation by pFv and was inhibited by cyclosporin A and The average t1/2 for pFv- induced histamine release was lower (3.5 evaluated whether it also induces IL-4 synthesis and secretion in release from basophils and mast cells and relaxation of OA-induced bronchial contraction was markedly faster maximal OA-induced bronchial contraction. In contrast, the rate of contraction of isolated bronchi and release of histamine and activated by pFv was significantly correlated (r(s) = 0.70; p < well with the inability of PD 098059 (5-50 .mu.M) to substantially siatoprotein found in normal liver and largely released in the We investigated the mechanism whereby protein Fv (pFv), a human Effects of mitogen-activated protein kinase kinase inhibitor PD 098059 on antigen challenge of 9 9 9 (61-68) guinea-pig airways in vitro. ISSN: 0007-1188 CODEN: BJPCBN Ridge Crescent, Singapore 119260, Singapore Medicine, National University of Singapore, 10 Kent × SSF Tuberculosis Tsang F.; Koh A.H.M.; Ting W.L.; Wong P.T.H.; Wong British Journal of Pharmacology, (1998) 125/1 United States Pharmacology

Drug Literature Index United Kingdom 015 English 026 Immunology, Serology and Transplantation Journal; Article Journal; Article Chest Diseases, Thoracic Surgery and

Han W.; Hartman S.E.; Yao L.; Nagai H.; Goldfeld A.E.; Alt F.W.; Gati S.J.; Witte O.N.; Kawakami T. CORPORATE SOURCE: T. Kawakami, La Jolia Inst for Allergy/Immunol., 10355 Science Center Dr., San Diego, CA 92121, United AB We investigated the role of Bruton's tyrosine kinase (Btk) in Fc.epsilon.RI- dependent activation of SUMMARY LANGUAGE: English FILE SEGMENT: DOCUMENT TYPE: COUNTRY: SOURCE AUTHOR: THE SE L8 ANSWER 16 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B. V. ACCESSION NUMBER: 1998138406 EMBASE development is apparently normal in these btk mutant mice. However, mast cells derived from these mice exhibited activation of p42(MAPK). These findings together with the lack of inhibitory effects of PD 098059 on bronchial contraction in vivo. Consistent with this finding, cultured mast anti-dinitrophenyl monoclonal IgE antibody exhibited mildly diminished early- phase and severely blunted mice. Unlike B cell development, mast cell mouse mast cells, using xid and btk null mutant contraction suggesting that PD 098059 exerts its Inhibitory significantly reduced the OA-triggered release of inhibition of MAPK signalling cascade by PD 098059 LTD4-induced bronchial contractions are not mediated by p42(MAPK) induced by histamine or LTD4 suggest that histamine- and However, treatment with OA, histamine or LTD4 did not cause p42(MAPK) was constitutively expressed in guinea-pig bronchi not blocked by PD 098059. 5. In immunoblotting study, we found that acid-induced release of peptidoleukotrienes from lung fragments was lung fragments in the presence of PD 098059. Exogenous arachidonic block the OA-induced release of histamine and with marked these results demonstrate an important role for Btk in the full epsilon.Rl cross-linking. Moreover, the defects in the production of several cytokines, upon Fc. mice exhibited mild impairments in degranulation, and more profound cells derived from the bone marrow cells of xid or btk null late-phase anaphylactic reactions in response to antigen challenge RI-dependent function, xid mice primed with significant abnormalities in Fc.epsilon. inhibition of peptidoleukotrienes release from mast role in histamine- or LTD4-induced bronchial smooth muscle branchial contraction. On the other hand, p42(MAPK) did not play a peptidoleukotrienes leading to rapid relaxation of anaphylactic activation. 6. Taken together, our findings show that Inhibition of OA-induced release of peptidoleukotrienes from mast cells to secrete mediators. Taken together closest relative, also partially improved the ability of btk mutant kinase-dead btk cDNA. Retroviral transfer of Emt (= ltk/Tsk), Btk's cells to degranulate and to secrete cytokines after the mprovement in the ability of btk mutant mast specificity of these effects of btk mutations was confirmed by the stimulated btk mutant mast cells. The reduced in Fc.epsilon.RI transcriptional activities of these cytokine genes were severely effects on OA-induced bronchial contraction primarily through expression of Fc.epsilon.RI signal etroviral transfer of wild- type btk cDNA, but not of vector or mast cell degranulation and cytokine production. ISSN: 0022-1007 CODEN: JEMEAV States Kitamura T.; Khan W.N.; Maeda- Yamamoto M.; Miura T.; (1235-1247). .epsilon.RI-dependent Involvement of Bruton's tyrosine kinase in Fc United States Journal of Experimental Medicine, (20 Apr 1998) 187/8 Hata D.; Kawakami Y.; Inagaki N.; Lantz C.S.; 26 glish Journal; Article Immunology, Serology and Transplantation

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Sutton B.J.; Gould H.J.
CORPORATE SOURCE: H.J. Gould, Randall Institute, King's College London,
26-29 Drury Lane, London WC2B 5RL, United Kingdom
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CORPORATE SOURCE: Prof. H.-M. Kim, Department of Oriental Pharmacy,
College of Pharmacy, Wonkwang University, Iksan,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L8 ANSWER 18 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998018076 EMBASE
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                                                                                                                                                                                                                                                AB The high-affinity receptor for immunoglobulin E (IgE), Fc.
                                                                                                                                                                                                                                                                                          SUMMARY LANGUAGE: English
                                                                                                                                                                                                                                                                                                                           LANGUAGE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARY LANGUAGE: English
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of the elevation of cAMP levels in MPMC following the activation
                              knowledge of the mode of interaction of Fc.epsilon
                                                                   is central to the pathogenesis of allergy. Detailed
                                                                                                     the .alpha.-subunit of Fc.epsilon.RI
                                                                                                                                                                         epsilon.RI, is an .alpha..beta..gamma.2 tetramer found on mast cells, basophils, and several
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inhibitory effect on anti-DNP IgE- induced tumour necrosis factor- alpha. production. Our results demonstrated that antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 with anti-DNP IgE demonstrated a significant rise in activated cells, but not in the antisense Fc.epsilon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treated with sense Fc.epsilon.RI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              decarboxylase mRNA after anti-DNP IgE stimulation, whereas the cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cells treated with antisense Fc.epsllon.
RI.alpha. ODN exhibited no detectable levels of L-histidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mast cells (MPMC) activated by anti-dinitrophenyl
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.RI with IgE may facilitate the development of
                                                                                                                                              other types of immune effector cells. The interaction of IgE with
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Inhibited the IgE-mediated affergic reaction in
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Immunology, (1998) 93/4 (589-594).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   site of human Fc.epsilon.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biochemistry, (1997) 36/50 (15579-15588)
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                                                                                                                                                                                                                                                                                                                                                  026 Immunology, Serology and Transplantation 
Clinical Biochemistry
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026 Immunolog
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inhibitors for general use in the treatment of

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those of wild-type sFc.epsilon.Rl.alpha, demonstrating that the native conformation had not been disrupted. Our results, together with those from site-directed mutagenesis on fragments of IgE the lgE:sFc.epsilon.Rl.alpha. complex through changes in the rates of dissociation of the slower phase of the interaction. Circular dichroism spectra of sFc.epsilon.Rl.alpha. sFc.epsilon.Rl.alpha. for IgE by a factor of 30, while D159K increased the affinity for IgE by a factor of 7, both principally on binding: K117D reduced the affinity of and fragments of IgE have been analyzed using surface plasmon resonance. As described in the preceding paper of this issue [Henry, A. J., et al. (1997) Biochemistry 36, 15568-15578], biphasic binding incorporating either of these mutations were indistinguishable from kinetics was observed. Two of the mutations had significant effects epsilon.Rl .alpha.-chain (sFc.epsilon.Rl.alpha.). site-directed mutagenesis on a soluble form of the Fc. allergic disease. To this end we have performed domain of sFc.epsilon.Rl.alpha. upon the kinetics of binding to IgE The effects of four mutations in the second immunoglobutin-like nted in the accompanying paper, define the contact surfaces in

THOR: Zuraw B.L.

CORPORATE SOURCE: Dr. B.L. Zuraw, Scripps Research Institute, 10550

North Torrey Pines Road, San Diego, CA 92037, United ANSWER 19 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. CESSION NUMBER: 97303666 EMBASE Urticaria, angioedema, and autoimmunity.

SOURCE: States (559-569). Clinics in Laboratory Medicine, (1997) 17/3

COUNTRY: Refs: 63 ISSN: 0272-2712 CODEN: CLMED6 United States

DOCUMENT TYPE: FILE SEGMENT: Dermatology and Venereology Immunology, Serology and Transplantation 3 Journal Otorhinolaryngology

AB Until relatively recently, the pathophysiologic significance of the SUMMARY LANGUAGE: English LANGUAGE: ecognized associations between autoimmunity and swelling was English

acquired C1-INH deficiency with angioedema. Chronic urticaria has been associated with antithyroid autoantibodies, anti-IgE largely unknown. It has now become clear that autoimmunity can play a critical role in the pathogenesis of chronic unticaria and

autoantibodies, and anti-Fc.epsilon.RI autoantibodies. The latter two autoantibodies are particularly interesting in that they have been shown to be capable of directly

causing mast cell degranulation. It appears likely, therefore, that most cases of chronic urticaria will

associated with other autoimmune diseases, although the importance of these associations remains to be determined. Recognition of the role of autoantibodies in the pathogenesis of chronic urticaria and Future progress in understanding the genesis of these diseases may help elucidate the mechanism of autoantibody generation. therapeutic approaches that need to be considered in approaching patients with chronic urticaria or acquired C1-INH deficiency. be responsible for the development of the C1-INH deficiency. In addition, both chronic urticaria and C1-INH deficiency can be ultimately be considered an autoimmune disease rather than an intergic disease. The link between autoimmunity and the development of acquired C1-INH deficiency is also of interest. Recent studies suggest that the majority of acquired C1-INH acquired C1-INH deficiency has altered the range of diagnostic and deficiency patients have anti-C1-INH autoantibodies that appear to

TITLE: L8 ANSWER 20 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 96119699 EMBASE

human basophils through the immunoglobulin E receptor Protein tyrosine kinases in activation signal of

AUTHOR: Benhamou M.; Feuillard J.; Lortholary O.; Bourgeois C.; Michel L.; LeGoff L.; Michel A.; Mencia-Huerta J.-M.; Lejeune F.; Cassassus P.; Debre P.; Arock M. type I

> SOURCE: CORPORATE SOURCE: CNRS URA 625, 91 Boulevard de l'Hopital, 75013 France

Journal of Leukocyte Biology, (1996) 59/3 (461-470) ISSN: 0741-5400 CODEN: JLBIE7 United States

FILE SEGMENT: 026 DOCUMENT TYPE: 025 Hematology Journal

LANGUAGE: Immunology, Serology and Transplantation English

SUMMARY LANGUAGE: English
AB Human basophils activated through high-ffinity immunoglobulin E involved in the late phase of the allergic reaction. To (lgE) receptors (Fc.epsilon.RI) are

in culture as well as a pure population of normal basophils in vitro-derived from human bone marrow precursor cells (HBMB). ABL analysis, and only bsasophils in ABL cells expressed Fc. assessed by staining, morphology, ultrastructure, and flow cytometry cells were 50-80% basophils at various stages of maturation as this activaion we used human acute basophilic leukemia (ABL) cells investigate the possible involvement of protein-trosine kinages in

epsilon.RI. Aggregation of Fc. epsilon.RI by IgE and antige, IgE and antigen,

or anti-Fc.epsilon.RI

3) hapten addition during antigen stimulation resulted in almost total disappearance of tyrosine phosphorylations within 30 s. There was correlation between histamine release and tyrosine phosphorylation in anti-igE dose-responses and in dose-responses of the tyrosine kinase Inhibitor genistein. The tyrosine kinases and their substrates could represent new potential therapeutic targets to prevent the development of the for 1 min resulted in extracellular calcium-independent tyrosine phosphorylation and activation of p(72s/k). Therefore, tyrosine to increased tyrosine phosphorylation of 120-, 100-, 80-, 72-, 50-to 65-, and 38-kDa substrates. Tyrosine phosphorylations in ABL allergic reaction. epsilon.RI signaling in basophils. Tyrosine stimulation, 2) they were observed under conditions where mediator kinases are involved in the early steps of human Fc. release is minimal, i.e., in the absence of extracellular calcium, cells were in baophils because 1) they were detected after a 5-s monocional antibodies on ABL cells or on HBMB, led kinase p(72syk) was detected in the cells. Stimulation of ABL cells

L8 ANSWER 21 OF 22 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 92337064 EMBASE ij

IgE-mediated allergy and Fc.epsilon.

receptor II. Suemura M.

CORPORATE SOURCE: Department of Medicine III, Osaka University Medical 553, Japan School, 1-1-50 Fukushima, Fukushima-ku, Osaka City

SOURCE JPN. J. THORAC. DIS., (1992) 30/8 (1427-1433) ISSN: 0301-1542 CODEN: NKYZA2

COUNTRY: Japan

OCUMENT TYPE: Journal

FILE SEGMENT: Tuberculosis 015 Chest Diseases, Thoracic Surgery and

LANGUAGE: Japanese
SUMMARY LANGUAGE: Japanese; English LANGUAGE: ე 29 Immunology, Serology and Transplantation Clinical Biochemistry

AB Two types of IgE receptors, Fc.epsilon. receptor I (Fc.

epsilon.RI leads to the release of chemical cells and basophils, and cross-linkage of Fc. epsilon.RI is expressed on mast epsilon.Rl) and Fc.epsilon.Rll), are known to be Involved in IgE-mediated allergy. Fc.

expressed on various cells such as mature .mu + delta + B cells and activated monocytes and eosinophils. The cDNA encoding B cell RI consists of alpha., beta and gamma chains, and cDNAs encoding these chains were recently cloned. Fc.epsilon.RII is Fc.epsilon.Rif was cloned by several groups including ours, and mediators from these cells. Fc.epsilon.

> exerted an enhancing effect on It-4-induced IgE responses. Thus, sFc.epsilon.Rll of different molecular sizes may function in various RI. On the other hand, purified sFc.epsilon.RII (33kDa) in allergy, we prepared recombinant sFc.epsilon.RII treatment or reduction of airborne allergens in activities of these lymphokines. This possibility was assessed in various allergic diseases, following the clinical courses. It was found that serum sFc. epsiion.Rll decreased following drug involved in IgE-mediated endocytosis, whereas Fc.epsilon.Rllb functions in IgE-dependent phagocytosis. The C-terminal extracellular region of Fc.epsilon.Rll is cleaved as a result of eosinophils. By employing transformants expressing Fc.epsilon.Rlla or Fc.epsilon.Rllb, it was demonstrated that Fc.epsilon.Rlla is expressing Fc.epsilon.Rll or Fc.epsilon. disease. Then, in order to analyze the functions of sFc.epsilon.RII parallel with clinical improvement, suggesting that sFc.epsilon.Rll level in serum may be a good indicator of allergic for the regulation of IgE antibody responses, proteolysis, and released from cells as soluble Fc.epsilon.Rll (sFc.epsilon.Rll) with MVV of 37, 33 and 25kDa. Since sFc.epsilon.Rll the N-terminal cytoplasmic region but share the same C-terminal lectins. Subsequently, we identified two species of Fc.epsilon.RII Fc. epsilon.Rll was found to be a single chain receptor expressed with its N-terminal inside the cells, homologous to C-type animal well as IgE-mediated release of chemical mediators from cells (25kDa). It showed an inhibitory effect on IgE-binding as sFc.epsilon.Rll level in the serum may reflect the in vivo Fc.epsilon.Rlib is inducible by IL-4 on B cells, monocytes and Fc.epsilon.Rlla and Fc.epsilon.llb, whose structures differ only at secretion is regulated by IL-4 and IFNs, which are also responsible c.epsilon.Rlla is constitutively expressed only on B cells. While different transcriptional initiation sites and 5' exons. extracellular region. These two receptors are generated utilizing

DOC, NO, CPI: INFORMATION LTD L8 ANSWER 22 OF 22 WPIDS COPYRIGHT 1999 DERWENT 3 ACCESSION NUMBER: useful for preparation of vaccines against Novel mimetope(s) for antibody BSW17 C97-143047 97-448633 [41] WPIDS

IgE-mediated diseases, especially allergy

phases of IgE-mediated allergic reactions.

DERWIENT CLASS: B04 D16
INVENTOR(S): KRICEK, F: STADLER, B
PATENT ASSIGNEE(S): (NOVS) NOVARTIS AG
COUNTRY COUNT: 75 PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 9731948 A1 970904 (9741)\* EN 72 RW: AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW

Z OA PT SD SE SZ UG

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT

UG US UZ VN AU 9718796 A 970916 (9803)

S

APPLICATION DETAILS

AU 9718796 A WO 9731948 A1 PATENT NO KIND WO 97-EP1013 970228 AU 97-18796 970228 APPLICATION DATE

FILING DETAILS:

PATENT NO KIND AU 9718796 A Based on PATENT NO WO 9731948

RI-mediated degranulation by CD81.

AUTHOR: Fleming T J: Donnadieu E; Song C H; Laethem F V;

Galli S J; Kinet J P

CORPORATE SOURCE: Department of Pathology, Beth Israel Deaconess L11 ANSWER 1 OF 8 MEDLINE
ACCESSION NUMBER: 97477414 MEDLINE
DOCUMENT NUMBER: 97477414 FILE SEGMENT: Medical Center, Boston, Massachusetts 02215, USA. CONTRACT NUMBER: CA/AI-72074 (NCI) => d 111 1-8 ibib ab = => s i10 not 19 5 ENTRY WEEK: LANGUAGE => s 18 or basophil PRIORITY APPLN. INFO: GB 96-17702 960822; GB 96-4412 960301 degranulation but, surprisingly, without affecting aggregation-dependent tyrosine phosphorylation, calcium mobilization, or leukotriene synthesis. Furthermore, CD81 recruit tyrosine and inositol phosphatases that results in diminished calcium mobilization. Here, we show that antibodies recognizing CD81 inhibit Fc JB. COUNTRY: s basophil epsilon RI alpha binding or IgE synthesis.

ADVANTACE - The reaction to these mimetopes is safer as compared to the "classical vaccine" approach, as no IgE-derived protein fragments are present to generate cross-reactive epsiton RI-mediated mast cell Receptors capable of interfering with the signaling of antigen receptors, such as Fc epsilon RI. Fc epsilon RI) results in the coordinate A novel immunogenic molecule comprises: (i) at least one moiety of a BSW17 mimetope peptide; and (ii) a moiety capable of eliciting an immune response against the peptide. Also claimed is a ligand cell degranulation in vivo as measured by reduced antibodies also inhibit mast activation of tyrosine kinases before calcium mobilization. mimetope peptide moiety as above, where the antibody domain is also reactive with the IgE heavy chain amino acid sequence passive cutaneous anaphylaxis responses. These results reveal an cell/basophil triggering by blocking lgE/Fc against an IgE-mediated disease, especially allergy which comprises the natural epitope recognised by BSW17.
USE - The peptide is used in the preparation of vaccines comprising an antibody domain specific for a BSW17 antibodies in immunised patients. of antibodies which inhibit mast (claimed). The molecules can be used as vaccines for the generation WO 9731948 A UPAB: 971013 Signaling through the high affinity receptor for immunoglobulin E ( 18456 BASOPHIL 18464 L8 OR BASOPHIL 8 L10 NOT L9 Journal; Article; (JOURNAL ARTICLE) Journal code: I2V. ISSN: 0022-1007 (8) 1307-14. GM-53950 (NIGMS) AI/CA-23990 (NIAID) Negative regulation of Fc epsilon JOURNAL OF EXPERIMENTAL MEDICINE, (1997 Oct 20) English United States 19980104 Priority Journals; Cancer Journals

ACCESSION NUMBER: 91114691
DOCUMENT NUMBER: 91114691
TITLE: Mapping of the high a AB Identification of the precise region(s) on the IgE molecule that take part in the binding of IgE to its high affinity receptor ( Fc epsilon RI) may lead to the design of ENTRY MONTH: FILE SEGMENT: LANGUAGE PUB. COUNTRY: SOURCE: Institute FILE SEGMENT: LANGUAGE: PUB. COUNTRY: Victoria, Australia.
CONTRACT NUMBER: A1-03958 G; Maglitto R; Stacker S A; Dunn A R
CORPORATE SOURCE: Ludwig Institute for Cancer Research, Melbourne DOCUMENT NUMBER: CORPORATE SOURCE: L11 ANSWER 3 OF 8 MEDLINE AB Mice homozygous for a disruption at the Lyn locus display ENTRY MONTH: L11 ANSWER 2 OF 8 MEDLINE exon shuffling, we have expressed chimeric epsilon-heavy chain genes composed of a mouse (4-hydroxy-3-nitrophenyl)acetic acid (NP)-binding VH domain, and human C epsilon in which various domains were replaced by their murine counterparts. This has enabled us to mast cell function. Despite reduced numbers of recirculating B lymphocytes, Lyn-t- mice are immunoglobulin M (gM) hyperglobulinemic. Immune responses to T-independent and T-dependent antigens are affected. Lyn-t- mice fail to mediate an affergic response to IgE cross-linking, indicating that activation of LYN plays an indispensable role in Fc epsilion RI signating. Lyn-t- mice C epsilon 3, bound equally to both the rodent and human receptor, as mouse IgE domain while maintaining the overall conformation of the molecule. All of the chimeric IgE molecules which contain the murine to the rat Fc epsilon RI. Employing domain of mouse IgE, we attempted to confer on human IgE, which normally does not bind to the rodent receptor, the ability to bind IgE analogues able to block the allergic response. To localize the Fc epsilon RI-binding erythematosus. Collectively, these results implicate LYN as having an indispensable role in immunoglobulin-mediated signaling, have circulating autoreactive antibodies, and many show severe glomerulonephiritis caused by the deposition of IgG immune complexes in the kidney, a pathology reminiscent of systemic lupus regulation, which is accessible to engagement by membrane proteins and on which novel therapeutic approaches to allergic well as to monoclonal antibodies recognizing a test the Fc epsilon RI-binding of each particularly in establishing B cell tolerance. diseases could be based. abnormalities associated with the B lymphocyte lineage and in unsuspected calcium-independent pathway of antigen receptor of Science, Rehovot, Israel. EMBO JOURNAL, (1991 Jan) 10 (1) 101-7. Journal; Article; (JOURNAL ARTICLE) Journal code: EMB. ISSN: 0261-4189
ITRY: ENGLAND: United Kingdom binding site to the third constant region domain of Journal, Article, (JOURNAL ARTICLE) CELL, (1995 Oct 20) 83 (2) 301-11. Journal code: CQ4. ISSN: 0092-8674. disease Lyn-deficient mice, culminating in autoimmune Turnour Biology Branch, Royal Melbourne Hospital, Mapping of the high affinity Fc epsilon receptor Multiple defects in the immune system of Nissim A; Jouvin M H; Eshhar Z Hibbs M L; Tarlinton D M; Armes J; Grail D; Hodgson United States 199105 Priority Journals 199602 Priority Journals; Cancer Journals 96028104 96028104 Department of Chemical Immunology, Weizmann MEDLINE MEDLINE

TITLE LANGUAGE: English
SUMMARY LANGUAGE: English
AB 1. It has been shown that activation of protein tyrosine kinases is DOCUMENT TYPE: FILE SEGMENT: CORPORATE SOURCE: W.S.F. Wong, Department of Pharmacology, Faculty of CORPORATE SOURCE: (1) Unite Pharmacol. Cell., UA Inst. Pasteur/INSERM no. 285, rue du Dr. Roux, F-75015 Paris France DOCUMENT NUMBER: PREV199698680193 SOURCE AUTHOR: ACCESSION NUMBER: 1998307954 EMBASE L11 ANSWER 5 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. AB This report examines the effect of recombinant murine interleukin-10 DOCUMENT TYPE: SOURCE: AUTHOR(S) L11 ANSWER 4 OF 8 BIOSIS COPYRIGHT 1999 BIOSIS ACCESSION NUMBER: 1996:108058 BIOSIS epsilon.RI cross-linking on mast cell. Following tyrosine kinase activation, a family of milogen-activated protein kinases (MAPKs) was found to be activated as well. The present study examined the role of MAPK signalling cascade in in vitro model of allergic asthma using a Inhibited cytokine generation, without affecting beta-hexosaminidase and LTC-4-like material release. TNF-alpha, but not GM-CSF mRNA expression, was also diminished in mill.-10-treated BMMC, suggesting that down-regulation of cytokine production by peptidoleukotrienes from chopped lung preparations were studied. 3. were passively sensitized with IgG antibody raised against ovalbumin (OA). Effects of PD 098059 on OA induced anaphylactic specific MAPK kinase InhIbitor PD 098059. 2. Guinea-pigs the earliest detectable signalling response to Fc. cytokine production by stimulated mast cells. rmIL-10 involves different mechanisms. These results identify a colony-stimulating factor (GMCSF) mRNA expression and protein release. Incubation of BMMC with 1-100 ng/ml rmlL- 10 albumin (DNP-BSA) and challenged with 10 ng/ml DNP-BSA generated beta-hexosaminidase and LTC-4-like material, which was followed by tumor necrosis factor-alpha (TNF-alpha) and granulocyte-macrophage (mil.-10) on antigen-induced beta-hexosaminidase, leukotriene (LT)C-4 and cytokine release from mouse bone marrow-derived mast cells (BMMC). BMMC sensitized to haptendomain of lgE as the principal region involved in the interaction cell degradation. These results assign the third epsilon constant region domain did not impair either the binding capacity of the mutated IgE or its ability to mediate mast epsilon RI binding site. Deletion of the second contraction of isolated bronchi and release of histamine and novel biological action of IL-10 as an inhibitor of monoclonal IgE directed against dinitrophenol-bovine serum with the Fc epsilon RI. Effects of mitogen-activated protein kinase kinase Inhibitor PD 098059 on antigen challenge of 03 03 7 (61-68) Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260, Singapore British Journal of Pharmacology, (1998) 125/1 ×.sF guinea-pig airways in vitro.
Tsang F.; Koh A.H.M.; Ting W.L.; Wong P.T.H.; Wong from mast cells ISSN: 0007-1188 CODEN: BJPCBM 1, pp. 166-170. ISSN: 0014-2980. Monique; Benhamou, Marc; Pretolani, Marina (1) Interleukin-10 Inhibits cytokine generation Tuberculosis United Kingdom European Journal of Immunology, (1996) Vol. 26, No. Drug Literature Index Pharmacology English 015 Arock, Michel; Zuany-Amorim, Claudia; Singer, Article Journal; Article Chest Diseases, Thoracic Surgery and

peptidoleukotrienes leading to rapid relaxation of anaphylactic branchial contraction. On the other hand, p42(MAPK) did not play a tole in histamine- or LTD4-induced bronchial smooth muscle p42(MAPK) was constitutively expressed in guinea-pig bronchi. However, treatment with OA, histamine or LTD4 did not cause activation of p42(MAPK). These findings together with the lack of inhibition of peptidoleukotrienes release from mast contraction suggesting that PD 098059 exerts its inhibitory bffects on OA-induced bronchial contraction primarily through significantly reduced the OA-triggered release of Inhibition of MAPK signalling cascade by PD 098059 activation. 6. Taken together, our findings show that LTD4-induced bronchial contractions are not mediated by p42(MAPK) induced by histamine or LTD4 suggest that histamine- and not blocked by PD 098059. 5. In immunoblotting study, we found that concentration-dependent manner. 4. These observations corroborate Inhibitory effects of PD 098059 on bronchial contraction acid-induced release of peptidoleukotrienes from lung fragments was lung fragments in the presence of PD 098059. Exogenous arachidonic Inhibition of OA-induced release of peptidoleukotrienes from block the OA-induced release of histamine and with marked well with the inability of PD 098059 (5-50 .mu.M) to substantially in the presence of PD 098059 than the vehicle control in a relaxation of OA-induced bronchial contraction was markedly faster maximal OA-induced bronchial contraction. In contrast, the rate of PD 098059 (10-50 .mu.M) produced only minor reduction of

COUNTRY: AUTHOR: Hata D.; Kawakami Y.; Inagaki N.; Lantz C.S.; Kitamura T.; Knan W. N.; Maeda. Yamamoto M.; Milura T.; Han W.; Hartman S.E.; Yao L.; Nagai H.; Goldfeld A.E.; Alt F.W.; Gatli S.J.; Witte O.N.; Kawakami T. CORPORATE SOURCE: T. Kawakami, La Jolla Inst. for Allergy/Immunol. FILE SEGMENT: DOCUMENT TYPE: SOURCE: SUMMARY LANGUAGE: English LANGUAGE: ACCESSION NUMBER: 1998138406 EMBASE L11 ANSWER 6 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V kinase-dead btk cDNA. Retroviral transfer of Emt (= ltk/Tsk), Btk's retroviral transfer of wild- type btk cDNA, but not of vector or cells to degranulate and to secrete cytokines after the cells derived from the bone marrow cells of xid or btk null improvement in the ability of btk mutant mast specificity of these effects of btk mutations was confirmed by the stimulated btk mutant mast cells. The reduced in Fc.epsllon.R transcriptional activities of these cytokine genes were severely epsilon.RI cross-linking. Moreover, the defects in the production of several cytokines, upon Fc. mice exhibited mild impairments in degranulation, and more profound in vivo. Consistent with this finding, cultured mast late-phase anaphylactic reactions in response to antigen challenge exhibited mildly diminished early- phase and severely blunted anti-dinitrophenyl monoclonal IgE antibody RI-dependent function, xid mice primed with development is apparently normal in these btk mutant mice. However mast cells derived from these mice exhibited mice. Unlike B cell development, mast cell Fc.epsilon.Rl- dependent activation of mouse mast cells, using xid and btk null mutant significant abnormalities in Fc.epsilon. We investigated the role of Bruton's tyrosine kinase (Btk) in mast cell degranulation and ISSN: 0022-1007 CODEN: JEMEAV (1235-1247). cytokine production. .epsllon.RI-dependent 0355 Science Center Dr., San Diego, CA 92121, United Involvement of Bruton's tyrosine kinase in Fc United States Journal of Experimental Medicine, (20 Apr 1998) 187/8 English 026 Journal; Article Immunology, Serology and Transplantation

L11 ANSWER 8 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 97303686 EMBASE

Urticaria, angioedema, and autoimmunity.
Zuraw B.L.

CORPORATE SOURCE:

AUTHOR:

AUTHOR: Kim H.-M.; Kim K.-S.; Lee E.-H.
CORPORATE SOURCE: Prof. H.-M. Kim, Department of Oriental Pharmacy,
College of Pharmacy, Wonkwang University, Iksan,
Chonbuk 570-749, Korea, Republic of TITLE: SUMMARY LANGUAGE: English LANGUAGE: FILE SEGMENT: DOCUMENT TYPE: COUNTRY: SOURCE: L11 ANSWER 7 OF 8 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998125329 EMBASE transduction in mast cells. expression of Fc.epsilon.RI signal these results demonstrate an important role for Btk in the full mast cells to secrete mediators. Taken together closest relative, also partially improved the ability of btk mutant 037 26 ISSN: 0019-2805 CODEN: IMMUAM E-mediated allergic reaction using .alpha. oligodeoxynucleotides. antisense Fc.epsilon.RI Specific Inhibition of immunoglobulin United Kingdom Drug Literature Index Immunology, Serology and Transplantation mmunology, (1998) 93/4 (589-594). English 8 Journal; Article Human Genetics

AB We have investigated the ability of an antisense immunoglobulin E inhibited the IgE-mediated allergic reaction in Fc.epsilon.Rl.alpha. ODN RI.alpha. ODN-treated cells. Moreover, antisense Fc with anti-DNP lgE demonstrated a significant rise in activated of the elevation of cAMP levels in MPMC following the activation treated with sense Fc.epsilon.RI cells treated with antisense Fc.epsiton.
RI.alpha. ODN exhibited no detectable levels of L-histidine factor-.alpha. production. Our results demonstrated that antisense inhibitory effect on anti-DNP IgE- induced tumour necrosis epsilon.Rl.alpha. ODN had a significant cells, but not in the antisense Fc.epsilon. decarboxylase mRNA after anti-DNP IgE stimulation, whereas the cells (DNP) IgE. Northern blot analysis showed that the mast mast cells (MPMC) activated by anti-dinitrophenyl anaphylaxis and histamine release from the mouse peritoneal mouse. Synthetic antisense Fc.epsilon.RI epsilon.Rl.alpha. ODN) specifically to alpha. ODN possessed significant amounts of this mRNA. Examination alpha. ODN dose-dependently inhibited passive cutaneous inhibit IgE-mediated allergic reactions in the (IgE) receptor .alpha.-subunit oligodeoxynucleotide (Fc.

LANGUAGE: English
SUMMARY LANGUAGE: English AB Until relatively recently, the pathophysiologic significance of the LANGUAGE: DOCUMENT TYPE: COUNTRY SOURCE: 026 ISSN: 0272-2712 CODEN: CLMED6 (559-569). States Refs: 63 E SOURCE: Dr. B.L. Zuraw, Scripps Research Institute, 10550 North Torrey Pines Road, San Diego, CA 92037, United 011 Otorhinolaryngology
Dermatology and Venereology
Immunology, Serology and Transplantation United States Clinics in Laboratory Medicine, (1997) 17/3 Journal

a critical role in the pathogenesis of chronic urticaria and largely unknown. It has now become clear that autoimmunity can play acquired C1-INH deficiency with angioedema. Chronic urticaria has

constitutively present in basophils, was increased after

recognized associations between autoimmunity and swelling was

of these associations remains to be determined. Recognition of the role of autoantibodies in the pathogenesis of chronic urticaria and Recent studies suggest that the majority of acquired C1- INH deficiency patients have anti-C1-INH autoantibodies that appear to be responsible for the development of the C1-INH deficiency. In therapeutic approaches that need to be considered in approaching patients with chronic urticaria or acquired C1-INH deficiency. acquired C1-INH deficiency has altered the range of diagnostic and associated with other autoimmune diseases, although the importance development of acquired C1-INH deficiency is also of interest. likely, therefore, that most cases of chronic urticaria will causing mast cell degranulation. It appears autoantibodies. The latter two autoantibodies are particularly autoantibodies, and anti-Fc.epsilon.RI addition, both chronic urticaria and C1-INH deficiency can be allergic disease. The link between autoimmunity and the ultimately be considered an autoimmune disease rather than an interesting in that they have been shown to be capable of directly been associated with antithyroid autoantibodies, anti-IgE nelp elucidate the mechanism of autoantibody generation. uture progress in understanding the genesis of these diseases may

=> s (I2 or basophil) and I3 and (antibod? or monoclon? or chimeric(w)antibod? or chimeric(w)monoclon?) and allerg? and (inhib? or reduc? or ameliorat? or

ALLERG? 145 (L2 OR BASOPHIL) AND L3 AND (ANTIBOD? OR MONOCLON? CHIMERIC(W) ANTIBOD? OR CHIMERIC(W) MONOCLON?) AND

AND (INHIB? OR REDUC? OR AMELIORAT? OR COMPET?)

=> dup rem

ENTER L# LIST OR (END):112

PROCESSING COMPLETED FOR L12 76 DUP REM L12 (69 DUPLICATES REMOVED)

=> d l13 1-76 ibib ab

L13 ANSWER 1 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.

AUTHOR: Patella V.; Giuliano A., Dourson, Corporate Source: Dr. G. Marone, Div. of Clinical Immunology/Allergy, University of Naples Federico II, Via S. Pansini 5, SOURCE ACCESSION NUMBER: 1998385337 EMBASE of IgE. Endogenous superallergen protein Fv induces IL-4 secretion from human Fc.epsllon .RI+ cells through interaction with the V(H)3 region Journal of Immunology, (15 Nov 1998) 161/10

AB We investigated the mechanism whereby protein Fv (pFv), a human sialoprotein found in normal liver and largely released in the LANGUAGE: English
SUMMARY LANGUAGE: English FILE SEGMENT: DOCUMENT TYPE: COUNTRY: t1/2 for pFv- induced histamine release was lower (3.5.+. 1.5 than for IL-4 release (79.5.+.8.5 min, p < 0.01). IL-4 mRNA. anti-lgE-induced IL-4 release from basophils. The average significantly correlated (r(s) = 0.70; p < 0.001). There was also a correlation (r(s) = 0.58; p < 0.01) between the maximum pFv- and secretion from basophils activated by pFv was IL-4 release from purified basophIIs. Histamine and IL-4 in basophils. pFv is a potent stimulus for histamine and release from basophIIs and mast cells and secretion and evaluated whether it also induces IL-4 synthesis and secretion intestinal tract in patients with viral hepatitis, induces mediator (5647-5655). ISSN: 0022-1767 CODEN: JOIMA3 ets: 66 United States 026 Journal; Article Immunology, Serology and Transplantation . 1.5 min)

acts as an endogenous superallergen, interacts with the V(H)3 domain of IgE to induce the synthesis and release of IL-4 from human by brief exposure to lactic acid no longer released IL-4 in response to pFv and anti-IgE. The response to an mAb cross-linking the Fc.epsilon.RI+ cells. and histamine induced by pFv. These results indicate that pFv, which monoclonal IgM did not Inhibit the release of IL-4 of IL-4 and histamine from basophils and of histamine from concentration-dependently inhibited pFv-induced secretion this treatment. Three human V(H)3+ monoclonal IgM alpha.-chain of Fc.epsilon.Rl was unaffected by tacrolimus. Basophils from which IgE had been dissociated human lung mast cells. In contrast, V(H)6+ stimulation by pFv and was inhibited by cyclosporin A and

ii Tillei L13 ANSWER 2 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998138406 EMBASE epsilon.Ri-dependent mast Involvement of Bruton's tyrosine kinase in Fc

AUTHOR: Hata D.; Kawakami Y.; Inagaki N.; Lantz C.S.;
Kitamura T.; Khan W.N.; Maeda. Yamamoto M.; Miura T.;
Han W.; Hattman S.E.; Yao L.; Nagai H.; Goldfeld
A.E.; Alt F.W.; Gatli S.J.; Witte O.N.; Kawakami T.
CORPORATE SOURCE: T. Kawakami, La Jolla Inst. for Allergy/Immunol. cell degranulation and cytokine production. States 0355 Science Center Dr., San Diego, CA 92121, United

SOURCE: (1235-1247). Journal of Experimental Medicine, (20 Apr 1998) 187/8

ISSN: 0022-1007 CODEN: JEMEAV United States

FILE SEGMENT: DOCUMENT TYPE: English Journal; Article Immunology, Serology and Transplantation

AB We investigated the role of Bruton's tyrosine kinase (Btk) in Fc.epsilon.RI- dependent activation of mouse SUMMARY LANGUAGE: English

is apparently normal in these btk mutant mice. However, mast cells derived from these mice exhibited significant Unlike B cell development, mast cell development mast cells, using xid and btk null mutant mice.

severely blunted late-phase anaphylactic reactions in response to antigen challenge in vivo. Consistent with this finding, cultured IgE antibody exhibited mildly diminished early- phase and function. xid mice primed with anti-dinitrophenyl monoclonal abnormalities in Fc.epsilon.RI-dependent

and more profound defects in the production of several cytokines, upon Fc.epsilon.Rl cross-linking. Moreover, the transcriptional activities of these cytokine genes were severely xid or btk null mice exhibited mild impairments in degranulation, mast cells derived from the bone marrow cells of

reduced in Fc.epsilon.RI-stimulated btk mutant mast cells. The specificity of these

ability of btk mutant mast cells to degranulate effects of btk mutations was confirmed by the improvement in the

and to secrete cytokines after the retroviral transfer of wild-type btk cDNA, but not of vector or kinase-dead btk cDNA. Retroviral transfer of Emt (= ltk/Tsk), Btk's closest relative, also partially

important role for Btk in the full expression of Fc. improved the ability of btk mutant mast cells to secrete mediators. Taken together, these results demonstrate an

epsilon.RI signal transduction in mast

L13 ANSWER 3 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998125329 EMBASE Specific Inhibition of immunoglobulin

E-mediated allergic reaction using

antisense Fc.epsllon.Rl.alpha.

oligodeoxynucleotides.

AUTHOR: Kim H.-M.; Kim K.-S.; Lee E.-H.

CORPORATE SOURCE: Prof. H.-M. Kim, Department of Oriental Pharmacy,

SOURCE: College of Pharmacy, Wonkwang University, Iksan, Chonbuk 570-749, Korea, Republic of ISSN: 0019-2805 CODEN: IMMUAM Immunology, (1998) 93/4 (589-594).

modified by single amino acid substitutions, METHODS: Three cloned

DOCUMENT TYPE: FILE SEGMENT COUNTRY United Kingdom 22 Journal; Article Human Genetics

Drug Literature Index Immunology, Serology and Transplantation

SUMMARY LANGUAGE: English
AB We have investigated the ability of an antisense immunoglobulin E ( (Fc.epsilon.Rl.alpha. ODN) specifically to lgE) receptor .alpha.-subunit oligodeoxynucleotide

anaphylaxis and histamine release from the mouse peritoneal (DNP) IgE. Northern blot analysis showed that the mast mast cells (MPMC) activated by anti-dinitrophenyl ODN dose-dependently inhibited passive cutaneous mouse. Synthetic antisense Fc.epsilon.Rl.alpha. inhibit IgE-mediated allergic reactions in the

decarboxylase mRNA after anti-DNP IgE stimulation, whereas the cells treated with sense Fc.epsilon.Rl.alpha. ODN cells treated with antisense Fc.epsilon
.Rl.alpha. ODN exhibited no detectable levels of L-histidine

possessed significant amounts of this mRNA. Examination of the elevation of cAMP levels in MPMC following the activation with anti-DNP IgE demonstrated a significant rise in activated cells, but ODN-treated cells. Moreover, antisense Fc.epsilon not in the antisense Fc.epsllon.Rl.alpha.

reaction in vivo and in vitro. anti-DNP IgE- induced tumour necrosis factor-.alpha. production. Our .Rl.alpha. ODN InhIbited the IgE-mediated allergic results demonstrated that antisense Fc.epsilon RI.alpha. ODN had a significant Inhibitory effect on

ACCESSION NUMBER: 1998224476 MEDLINE DOCUMENT NUMBER: 98224476 L13 ANSWER 4 OF 76 MEDLINE DUPLICATE 1

proliferation, cytokine production, CD40L expression, T-cell clones and help for IgE synthesis by Der p 1-specific human Antagonistic peptides specifically inhibit

AUTHOR:

Fasler S; Aversa G; de Vries J E; Yssel H
CORPORATE SOURCE: Human Immunology Department, DNAX Research Institute

USA. for Molecular and Cellular Biology, Palo Alto, Calif,

(1998 SOURCE: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY,

PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE) Journal code: H53. ISSN: 0091-6749 Apr) 101 (4 Pt 1) 521-30. United States

ENTRY WEEK: FILE SEGMENT: ENTRY MONTH: LANGUAGE: English 19980702 Abridged Index Medicus Journals; Priority Journals

AB BACKGROUND: Allergic disorders are characterized by IgE allergic reactions in various target organs. Because the synthesis of IgE is tightly regulated by cytokines and CD40 ligand (L) interactions, CD4+ helper T cells are obvious targets, with the specific T-helper type 2 (TH2) cells in the pathway leading to IgE synthesis in vitro and in vivo, we have evaluated the possibility of OBJECTIVES: Because of the central role of allergen mediators such as histamine and leukotrienes, which cause on mast cells and basophlls. This interaction results in receptor activation and release of soluble specifically bind to high-affinity tgE receptors antibody responses to a multitude of allergens as a result of the ability of these antibodies to aim to modulate allergen-induced IgE responses.

cells by using allergen-derived peptides that have been Inhibiting allergen-induced activation of these

> Der pl-specific T-cell clones prevented induction of CD40L expression, resulting in a faiture of these cells to give help to B cells for the production of IgE in vitro, even in the presence of exogenous IL-4. CONCLUSIONS: Substitution of certain amino acid residues in immunogenic Der p 1-derived peptides results in the generation of peptides that fail to induce proliferation of Der p expansion and function of allergen-specific TH2 cells. production of cytokines and the expression of surface molecules important for successful T cell-B cell interactions, and may by B cells. These findings suggest that modified peptides interfere with allergen-induced activation of T cells, including the 1-specific T-cell clones. In addition, these modified peptides have strong antagonistic activities on Der p1-induced proliferation, cytokine production, and CD40L expression by allergen specific T-cell clones as well as on T cell-mediated lgE production therefore have therapeutic potential by inhibiting the although the production of the latter two cytokines was less affected than that of interferon-gamma, even at a 100-fold molar excess of the antagonistic peptides. In addition, the presence of an Inhibiting wild-type peptide-induced proliferation as well as the production of interferon-gamma, IL-2, IL-4, and IL-5. cytokine production, and in vitro IgE production assays. RESULTS: Several substituted Der p 1-derived peptides failed to induce T-cell excess of each of the antagonistic peptides during the activation of modified peptides were studied in Der p 1-induced proliferation. activation-inducing epitopes on Der p 1. The effects of these peptides, these T-cell clones produce high levels of IL-4 and IL-5 and low levels of interferon-gamma and IL-2, respectively, and furthermore give help to B cells for the production of IgE in vitro. of these peptides acted as antagonists by strongly single amino acid substitutions into two different T-cell activation with Der p 1 or specific Der p 1-derived wild-type allergen in house dust, were used in this study. Upon human TH2-like CD4+ T-cell lines, specific for Der p 1, the major proliferation, in contrast to the native peptides. In addition, some Modified synthetic peptides were generated by the introduction of

DOCUMENT NUMBER: PREV199800257635 ACCESSION NUMBER: L13 ANSWER 5 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS 1-cell clones and help for IgE synthesis by Der p 1-specific human proliferation, cytokine production, CD40L expression Antagonistic peptides specifically Inhibit 1998:257635 BIOSIS

CORPORATE SOURCE: AUTHOR(S) Yssel, Hans (1) Fasler, Stephan; Aversa, Gregoria; De Vries, Jan E.; (1) INSERM U454, Hopital Arnaud de Villeneuve, 371

SOURCE: France Ave. Doyen Gaston Giraud, 34295 Montpellier Cedex

Journal of Allergy and Clinical Immunology, (April 1998) Vol. 10, No. 4 PART 1, pp. 521-530. ISSN: 0091-6749.

DOCUMENT TYPE: LANGUAGE: English Article

AB Background: Allergic disorders are characterized by IgE synthesis of IgE is tightly regulated by cytokines and CD40 ligand (L) interactions, CD4+ helper T cells are obvious targets, with the antibody responses to a multitude of allergens as a result of the ability of these antibodies to Objectives: Because of the central role of altergen aim to modulate allergen-induced lgE responses allergic reactions in various target organs. Because the interaction results in receptor activation and release of soluble mediators such as histamine and leukotrienes, which cause on mast cells and basophils. This specifically bind to high-affinity IgE receptors

cells by using allergen-derived peptides that have been allergen in house dust, were used in this study. Upon modified by single amino acid substitutions. Methods: Three cloned human TH2-like CD4+ T-cell lines, specific for Der p 1, the major inhibiting allergen-induced activation of these specific T-hetper type 2 (TH2) cells in the pathway leading to IgE synthesis in vitro and in vivo, we have evaluated the possibility of

ACCESSION NUMBER: 1998160391 L13 ANSWER 7 OF 76 MEDLINE

1998160391 MEDLINE

tropical environment

response in atopic and nonatopic children in a

Escudero J E; Corao L A; Sandia J A; Ferreira L J;

involved in the pathophysiology of allergy

affected than that of interferon-gamma, even at a 100-told molar excess of the antagonistic peptides. In addition, the presence of an excess of each of the antagonistic peptides during the activation of Der p i-specific T-cell clones prevented induction of CD40L expression, resulting in a failure of these cells to give help to B residues in immunogenic Der p 1-derived peptides results in the teneration of peptides that fall to induce proliferation of Der p specific T-cell clones. In addition, these modified peptides have strong antagonistic activities on Der p 1-induced proliferation, cytokine production, and CD40L expression by allergen specific T-cell clones as well as on T cell-mediated IgE production. therefore have therapeutic potential by inhibiting the activation with Der p 1 or specific Der p 1-dervived wild-type peptides, these T-cell clones produce high levels of IL-4 and IL-5 production of cytokines and the expression of surface molecules important for successful T cell-B cell interactions, and may with allergen-induced activation of T cells, including the by B cells. These findings suggest that modified peptides interfere cells for the production of IgE in vitro, even in the presence of exogenous IL-4. Conclusions: Substitution of certain amino acid although the production of the latter two cytokines was less as the production of interferon-gamma, IL-2, IL-4, and IL-5, inhibiting wild-type peptide-induced proliferation as well proliferation, in contrast to the native peptides. In addition, some of these peptides acted as antagonists by strongly Several substituted Der p 1-derived peptides failed to induce T-cell cytokine production, and in vitro IgE production assays. Results: modified peptides were studied in Der p 1-induced proliferation, activation-inducing epitopes on Der p 1. The effects of these single amino acid substitutions into two different T-cell Modified synthetic peptides were generated by the introduction of and low levels of interferon-gamma and IL-2, respectively, and furthermore give help to B cells for the production of IgE in vitro.

Journal; Article; (JOURNAL ARTICLE)

Feb) 101 (2 Pt 1) 217-21

DOCUMENT TYPE: FILE SEGMENT: COUNTRY: SOURCE: AUTHOR:

Escura R.B.; Schroeder J.T.; MacDonald S.M.

CORPORATE SOURCE: Dr. R.B. Escura, Johns Hopkins Asthma/Allergy Ctr. ANGUAGE: MMARY LANGUAGE: English Since basophlls appear to play a fundamental role in the United States ISSN: 0214-0934 CODEN: DNPEED 5501 Hopkins Bayview Circle, Baltimore, MD 21224, HrHRF: Function and regulation. Drug News and Perspectives, (1998) 11/4 (223-229). Pharmacology Spain Drug Literature Index 026 Immunology, Serology and Transplantation Journal; General Review

L13 ANSWER 6 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998240544 EMBASE IgE+; the remaining IgE molecules designated were IgE-. Initially, it was thought that HrIRF might exert its activity by directly interacting with IgE+; however, a number of recent experiments have questioned this hypothesis. Observations suggest, in part, that HrIRF mediates biological activities on inflammatory cells by was mediated by the interaction of these HRFs with a certain kind of IgE, and upon experimentation a functional heterogeneity of the IgE molecule was uncovered. We designated the IgE from HRF responders as proceeds via a signal transduction pathway other than the one triggered by classic IgE-dependent stimuli such as anti-IgE binding to a specific receptor rather than to the IgE molecule and/or the Fc.epsIlon.Rl. In parallel with the performed to determine whether mediator release by this protein that caused basophil histamine release. It was histamine-releasing factors (HRFs) has evolved. Our laboratory reported that a factor was present in late-phase skin blister fluids investigation in many laboratories. From this interest, the field of in basophil activation have become a focus of maintenance of allergic inflammation, the factors involved expansion and function of allergen-specific TH2 cells. search for an HrHRF receptor, a number of experiments have been hypothesized that basophil degranulation in these donors LANGUAGE:
FILE SEGMENT:
ENTRY MONTH: Journal code: H53. ISSN: 0091-6749.
PUB. COUNTRY: United State: AB BACKGROUND: Although IgE antibody is clearly involved in SOURCE: AUTHOR: support the concept that the atopic state has conferred a selective infection than their nonatopic counterparts. These observations that the atopic children have an intrinsic propensity to favor total Ig⋿ being nine times higher than in the nonatopic mainland RESULTS: Although the living conditions and the prevalence of but a relatively low expression of aftergic diseases. elevated IgE synthesis against environmental allergens, atopic disposition is generally recognized to be associated with inhibiting allergic reactivity. This may represent cell Fc epsilon receptors, thus antibody responses and cause saturation of mast Such polyclonal stimulation can diminish specific IgE synthesis that results in highly elevated total serum antibody but can nonspecifically induce polyclonal IgE not only stimulate the production of antiparasite IgE evolutionary advantage that could compensate for its involvement in elminthic parasites and had significantly lower intensities of allergic reactions to environmental allergens,

Botto C; Perez M; Le Souef P N
CORPORATE SOURCE: Instituto de Biomedicina, Universidad Central de
Venezuela, Caracas. elevated than in the atopic island group (geometric mean: Barrio Los Erasos, 2172; Coche Island, 941 (U/m); p < 0.001). In contrast, the specific anti-Ascaris response was much stronger in the atopic children (geometric mean: Barrio Los Erasos, 0.30; Coche Island, 0.91 PPU/m); p < 0.001), which resulted in the ratio of specific to mainland children (geometric mean values of eggs per gram of feces: Barrio Los Erasos, 7621; Coche Island, 1435; p < 0.001). In addition, their total serum IgE levels were significantly more Ascaris infection of the two groups were comparable, the intensity of the parastitic infection was considerably higher in the nonatopic allergic disease is extremely high. The other was a group of nonatopic children belonging to a mainland population (Barrio Los Erasos) that is of comparable socioeconomic level and has an antiparasite response. To this end, we examined two groups of Venezulelan children in whom the intestinal helminth Ascaris lumbricoides is endemic but that differ greatly in their level of atopy. One group was from an island population (Coche Island) that has a very strong atopic background and in which the prevalence of this immunoglobulin is an important component of host-protective immune responses against the helminthic parasites that are endemic in the majority of the world population. However, these infections subjects. These differences were maintained even when the children were matched on the basis of infection intensity, thus indicating specific over polyclonal IgE responses to the parasite. CONCLUSIONS: The children with a strong atopic background demonstrated IgE exposure to helminthic infection similar to that of the island group the aim of this study was to evaluate the influence of atopy on the a mechanism of immune evasion by the parasite. OBJECTIVE: Because an ongoing, the evidence thus far is consistent with the concept that HRF may be an important regulator of the cellular inflammation esponses concordant with an enhanced protective response against Relationship between helminthic infection and IgE Lynch N R; Hagel I A; Palenque M E; Di Prisco M C; JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY Abridged Index Medicus Journals; Priority Journals IgE levels. L13 ANSWER 8 OF 76 MEDLINE ACCESSION NUMBER: 1998189648 DOCUMENT NUMBER: 98189648 LANGUAGE: FILE SEGMENT: ENTRY MONTH: PUB. COUNTRY: IMMUNOLOGY, SOURCE correlate with atopic and nonatopic pathways of immune regulation in children with bronchial asthma.

AUTHOR: Oxelius V A; Carlsson A M; Aurivillius M accomposition of Pediatrics and Clinical Immunology, University Hospital, University of Lund, Sweden. AB Most genetic studies of bronchial asthma deal with IgE ENTRY WEEK: immunodiffusion), peripheral blood eosinophils, specific IgE antibodles (skin prick test, SPT, or radioallergosorbent test, RAST), number of peripheral blood CD lymphocyte markers (flow cytometry) and serum IL.4 and IFN-gamma levels (ELISA). Comparison of the two genotypes in children with bronchial asthma revealed significantly increased IgE (p < 0.001), increased specific IgE (p < 0.001), as investigated by SPT or RAST (n = 10 allergens tested), increased number of peripheral blood eosinophilis (p < 0.001), Increased serum IgG1 (Iff)(p < 0.001), IgG2(n/n), (p < 0.001) genotypes with different amino acid epitopes of their constant heavy gamma1, gamma2 and gamma3 chains presented qualitatively different [gG1, [gG2 and [gG3 molecules, respectively, and also different and igG3(b/b)(p < 0.01) levels, and decreased CD8 given in percent of the total number of peripheral lymphocytes, (p < 0.02) in the G3m(b/b)-G1m(iff)-G2m(n/h) genotype. The asthmatic children with the G3m(g/g)-G1m(a/a)-G2m(n/h) genes instead showed low IgE levels, practically no specific IgE antibodies, a lower number of peripheral blood eosinophils, lower IgG1(a/a), IgG2(-n/-n) and competitive indirect ELISA method. The groups consisted of 24 children with the homozygous G3m(bh)-G1m(th)-G2m(n/h) and 16 with the alternative G3m(gh)-G1m(a/a)-G2m(n-h) genes. The two different genotypes were investigated for serum ligit (PRIST), serum lgG subclass levels (radial immunodiffusion), Gm allotype levels ( for atopy could be suggested. genotypes represent different pathways of human immune regulation An association of atopic IGHG genotype with other candidate genes patients with homozygous but alternative IGHG genes were investigated. IGHG gene expression of patients with childhood asthma was determined by serum Gm allotypes with a quantitative peripheral blood eosinophils and CD8 lymphocytes. The two IGHG high-responding IGHE genes and present the atopic phenotype of bronchial asthma, while the IGHG3(g/g)-IGHG1(a/a)-IGHG2(-n/-n) genes present the nonatopic phenotype of childhood asthma. The two lgG3(g/g) serum levels and higher CD8 lymphocyte numbers. The results show that the IGHG3(b/b)-IGHG1(f/f)-IGHG2(n/n) genes are in beta chain of the high-affinity IgE receptor and chromosome 5 and the gene cluster for IL-4, respectively. In several genetic loci may be involved. Several reports of candidate genes include chromosome 6 and HLA antigens, chromosome 14q11 and linkage disequilibrium with allergen-specific competitive ELISA), IgA and IgM levels (radial production and activate mast cells suggests that serum IgG1, IgG2 and IgG3 levels, together with different numbers of the role of IGHG genes in asthmatic children, the phenotypes of atopic bronchial asthma in children. In order to further investigate chromosome 14q32 have been associated with both atopic and non addition, the immunoglobulin heavy chain G (IGHG) genes on the alpha chain of the T cell receptor, chromosome 11q32 and the esponsiveness. The manner by which allergens trigger IgE Journal; Article; (JOURNAL ARTICLE) Journal code: BJ7. ISSN: 1018-2438. (1998 Mar) 115 (3) 215-9. Alternative G1m, G2m and G3m allotypes of IGHG genes INTERNATIONAL ARCHIVES OF ALLERGY AND 19980604 Priority Journals MEDLINE DUPLICATE 3

ACCESSION NUMBER: 19981964-L13 ANSWER 9 OF 76 MEDLINE

1998196410

basophil histamine release in asthma due to

Is tyrosine kinase activation involved in

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09/090,375
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AUTHOR: Frew A. Chan H; Salari H; Chan-Yeung M
CORPORATE SOURCE: Department of Medicine Vancouver General Hospital,
University of British Columbia, Canada.
SOURCE: ALLEROY, (1988 Feb) 53 (2) 139-43.
Journal code: 39C. ISSN: 0105-4538.
PUB. COUNTRY: Denmark AB Occupational asthma due to western red cedar is associated with ENTRY WEEK: ENTRY MONTH: FILE SEGMENT: LANGUAGE patients with occupational asthma due to western red cedar suggests that tyrosine kinases are not as important in this disease as in atopic asthma, and is consistent with the view that histamine Fc epsilon RI appears to depend upon tyrosine kinase activation, but not on protein kinase C (serine/threonine kinase) activation. The lack of specific effect on plicatic Inhibition of PA-induced histamine release (25.3% vs 33.8%; P = NS). Thus, signal transduction of the human basophil either anti-IgE or grass pollen. Pretreatment with MDHC partially Inhibited PA-induced histamine release from concentration-dependent and could be reversed by washing the cells in buffer, while the inactive stereoisomer of MDHC did not affect histamine release. In contrast, the protein kinase C cells on exposure to plicatic acid (PA), but the mechanisms acid-induced histamine release in basophils obtained from 33.8%; P = NS). Staurosporine gave a similar level of basophils of 6/9 patients with red cedar asthma (25.4% vs Inhibitor staurosporine did not affect histamine release by inhibitors were used to study the role of tyrosine and underlying this response remain unclear. Specific kinase histamine release from basophils triggered by anti-IgE basophils. Pretreatment with the tyrosine kinase serine/threonine kinases in PA-induced histamine release from human histamine release from basophils and mast inhibition; n = 6; P < 0.01). inhibition was (29.8% inhibition; n = 15; P < 0.01) or grass pollen (48% inhibitor methyl 2,5-dihydroxy-cinnamate (MDHC) attenuated Journal; Article; (JOURNAL ARTICLE) 19980705 199807 Priority Journals

AUTHOR: L13 ANSWER 10 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998307954 EMBASE inhibitor PD 098059 on antigen challenge of guinea-pig airways in vitro. Effects of mitogen-activated protein kinase kinase Tsang F.; Koh A.H.M.; Ting W.L.; Wong P.T.H.; Wong

release in red cedar asthma is largely lgE-independent.

SOURCE: Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260, Singapore British Journal of Pharmacology, (1998) 125/1

CORPORATE SOURCE: W.S.F. Wong, Department of Pharmacology, Faculty

¥.S.F

(61-68) ISSN: 0007-1188 CODEN: BJPCBM

COUNTRY: Ur DOCUMENT TYPE: FILE SEGMENT: 8 Tuberculosis United Kingdom E: Journal, Article 015 Chest Diseases, Thoracic Surgery and Pharmacology

LANGUAGE: 037 Drug Literature Index

SUMMARY LANGUAGE: English 1. It has been shown that activation of protein tyrosine kinases is the earliest detectable signalling response to Fc.

Following tyrosine kinase activation, a family of mitogen-activated protein kinases (MAPKs) was found to be activated as well. The epsilon.Rl cross-linking on mast cell. vitro model of allergIc asthma using a specific MAPK kinase Inhibitor PD 098059. 2. Guinea-pigs were passively present study examined the role of MAPK signalling cascade in in

sensitized with IgG antibody raised against ovalbumin

OA-triggered release of peptidoleukotrienes leading to rapid releasation of anaphylactic branchial contraction. On the other hand, releasation of anaphylactic branchial contraction. On the other hand, p42(MAPK) did not play a role in histamine- or LTD4-induced bronchial smooth muscle contraction suggesting that PD 098059 exerts effects of PD 098059 on bronchial contraction induced by histamine or LTD4 suggest that histamine- and LTD4-induced bronchial contractions are not mediated by p42(MAPK) activation. 6. Taken constitutively expressed in guinea-pig bronchi. However, treatment with OA, histamine or LTD4 did not cause activation of p42(MAPK). release of peptidoleukotrienes from lung fragments in the presence of PD 098059. Exogenous arachidonic acid-induced release of isolated bronchi and release of histamine and peptidoleukotrienes from chopped lung preparations were studied. 3. PD 098059 (10-50 its inhibitory effects on OA-induced bronchial contraction peptidoleukotrienes from lung fragments was not blocked by PD 098059. 5. In immunoblotting study, we found that p42(MAPK) was of PD 098059 than the vehicle control in a concentration-dependent primarily through inhibition of peptidoleukotrienes together, our findings show that inhibition of MAPK of histamine and with marked inhibition of OA-induced PD 098059 (5-50 .mu.M) to substantially block the OA-induced release OA-induced bronchial contraction was markedly faster in the presence bronchial contraction. In contrast, the rate of relaxation of elease from mast cells. signalling cascade by PD 098059 significantly reduced the These findings together with the lack of Inhibitory mu.M) produced only minor reduction of maximal OA-induced OA). Effects of PD 098059 on OA-induced anaphylactic contraction of These observations corroborate well with the inability of

DOC. NO. CPI. INFORMATION LTD ACCESSION NUMBER: L13 ANSWER 11 OF 76 WPIDS COPYRIGHT 1999 DERWENT useful for preparation of vaccines against IgE-mediated diseases, especially aftergy Novel mimetope(s) for antibody BSW17 -C97-143047 97-448633 [41] WPIDS

DERWENT CLASS: 804 D16
INVENTOR(S): KRICEK, F; STADLER, B
PATENT ASSIGNEE(S): (NOVS) NOVARTIS AG
COUNTRY COUNT: 75 PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA

Z WO 9731948 A1 970904 (9741)\* EN  $\,$  72 RW: AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW

ŋ W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT OA PT SD SE SZ UG

ς AU 9718796 A 970916 (9803) UG US UZ VN

APPLICATION DETAILS

PATENT NO KIND WO 9731948 A1 AU 9718796 A WO 97-EP1013 970228 AU 97-18796 970228 APPLICATION DATE

FILING DETAILS:

PRIORITY APPLN. INFO: GB 96-17702 960822; GB 96-4412 960301 AB WO 9731948 A UPAB: 971013 PATENT NO KIND AU 9718796 A Based on PATENT NO WO 9731948

BSW17 mimetope peptide; and (ii) a moiety capable of eliciting an

A novel immunogenic molecule comprises: (i) at least one moiety of a

of antibodies which inhibit mast domain is also reactive with the IgE heavy chain amino acid sequence which comprises the natural epitope recognised by BSW17. cell/basophii triggering by blocking IgE/ (claimed). The molecules can be used as vaccines for the generation against an IgE-mediated disease, especially affergy mimetope peptide moiety as above, where the antibody comprising an antibody domain specific for a BSW1. immune response against the peptide. Also claimed is a ligand USE - The peptide is used in the preparation of vaccines

antibodies in immunised patients. compared to the "classical vaccine" approach, as no tgE-derived Fc epsilon RI alpha binding or IgE synthesis.

ADVANTAGE - The reaction to these mimetopes is safer as Dwg.0/15 protein fragments are present to generate cross-reactive

L13 ANSWER 12 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 1998018076 EMBASE AUTHOR: .Rt.alpha. site of human Fc.epsilon Identification of contact residues in the IgE binding Cook J.P.D.; Henry A.J.; McDonnell J.M.; Owens R.J.;

CORPORATE

SOURCE: Sutton B.J.; Gould H.J.
TE SOURCE: H.J. Gould, Randall Institute, King's College London,
26-29 Drury Lane, London WC2B SRL, United Kingdom
Biochemistry, (1997) 36/50 (15579-15588).

FILE SEGMENT DOCUMENT TYPE: COUNTRY: ISSN: 0006-2960 CODEN: BICHAW United States Journal; Article
026 Immunology, Serology and Transplantation

SUMMARY LANGUAGE: English LANGUAGE: 029 Clinical Biochemistry English

epsilon.RI, is an .alpha..beta..gamma.2 tetramer found on mast cells, basophils, and several other types of immune effector cells. The interaction of IgE with the

AB The high-affinity receptor for immunoglobulin E (lgE), Fc.

the pathogenesis of allergy. Detailed knowledge of the Fc.epsilon.Rl .alpha.-chain use in the treatment of allergic disease. To this end we may facilitate the development of inhibitors for general mode of interaction of Fc.epsilon.RI with IgE have performed site-directed mutagenesis on a soluble form of the alpha.-subunit of Fc.epsilon.RI is central to

immunoglobulin-like domain of sFc.epsilon.Rl.alpha. upon the kinetics of binding to lgE and fragments of IgE have been analyzed using surface plasmon resonance. As described in the preceding paper of this issue [Henry, A. J., et al. (1997) Blochemistry 38, 15568-15578], biphasic binding kinetics was observed. Two of the fragments of IgE presented in the accompanying paper, define the contact surfaces in the IgE:sFc.epsilon.RI.alpha. complex. Our results, together with those from site-directed mutagenesis on principally through changes in the rates of dissociation of the slower phase of the interaction. Circular dichroism spectra of mutations had significant effects on binding: K117D reduced the affinity of sFc.epsilon.Rl.alpha. for IgE by a factor of 30, while D159K increased the affinity for IgE by a factor of 7, both demonstrating that the native conformation had not been disrupted indistinguishable from those of wild-type sFc.epsilon.Rl.alpha.. (sFc.epsilon.Rl.alpha.). The effects of four mutations in the second sFc.epsilon.Rl.alpha. incorporating either of these mutations were

ACCESSION NUMBER: DOCUMENT NUMBER: L13 ANSWER 13 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS UMBER: PREV199799616472
The effect of an anti-IgE monoclonal DUPLICATE 4

antibody on the early- and late-phase asthmatic subjects responses to allergen inhalation in

AUTHOR(S) : Fahy, John V. (1); Fleming, H. Edward; Wong, Hofer H.; Liu, Jane T.; Su, John Q.; Reimann, James; Fick, Robert B., Jr.; Boushey, Homer A.

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SOURCE: CORPORATE SOURCE: (1) Box 0130, Univ. California, San Francisco, 09/090,375 DOCUMENT TYPE: L13 ANSWER 14 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI.
ACCESSION NUMBER: 1998000896 EMBASE AB A humanized murine monoclonal antibody directed to the Fc-epsilon-R1-binding domain of human IgE wk of treatment with rhuMAb-E25 in a parallel group, randomized, double-blind, placebo-controlled study of 19 allergic cell activation. To examine the effects of neutralizing IgE to mast cells without provoking mast (rhuMAb-E25) has been shown to inhibit the binding of IgE IgE with rhuMAb-E25 might be a useful treatment for allergic receptor, suppresses the early- and late-phase responses to inhaled allergen in allergic asthmatic subjects. Targeting antibody, which inhibits binding of IgE to its after placebo; p = 0.01), and reduced the mean maximal fall in FEV-1 during the late response (24 + 20% at baseline to 9 - 10% versus 20 + 17% at baseline to 18 + 17% after placebo; p = mean maximal fall in FEV-1 during the early response (30 +- 10% at baseline to 18.8 +- 8%, versus 33 +- 8% at baseline to 34 +- 4% needed to provoke an early asthmatic response, reduced the reduced serum IgE, increased the dose of allergen asthmatic subjects. We found that treatment with rhuMAb-E25 on allergic airway responses, we assessed the effects of 9 .047). We conclude that an anti-IgE monoclonal American Journal of Respiratory and Critical Care Medicine, (1997) Vol. 155, No. 6, pp. 1828-1834. cutaneous anaphylaxis in Balb/C mice and mast 94143 USA ISSN: 1073-449X Topical glucocorticoid augments IgE-mediated passive Article

AUTHOR: Katayama I.; Igawa K.; Minatohara K.; Nishioka K. CORPORATE SOURCE: 1. Katayama, Department of Dermatology, Nagasaki, Univ. School of Medicine, 1-7-1 Sakamoto Nagasaki, SOURCE: cell deficient WBB6F1 v/v mice ISSN: 0954-7894 CODEN: CLEAEN (1477-1483). Nagasaki 852, Japan Clinical and Experimental Allergy, (1997) 27/12 United Kingdom

COUNTRY: Un DOCUMENT TYPE: FILE SEGMENT: ANGUAGE mg/mL), prednisolone valerateacetate (3 mg/mL), or triamcinolone acetonide (1 mg/mL) were applied seven times on alternate day, to the flank skin of mice. On day 12 when mice received the seventh antibody and following the challenge test. In contrast, topical application of GC inhibited the reactions when seven times on alternate days, augmented expression of passive GC (50 .mu.g diflucortolone valerate in ethanol) on the flank skin fight pinna. The left pinna was painted with a vehicle as a control increased ear thickness was measured at 1, 4, 24, 48 and 72h to assess the augmenty effect of GC. Results: Topical application of the skin test with 0.15% DNFB in acetone:olive oil (4: 1) on the application of GC, each mouse was given an intravenous application of IgE anti-DNP antibody (PCA titre > x 2560) 1 h before reactions. Methods Fifty microlitres of diflucontolone valerate (1 anti-inflammatory effect, we have examined the effect of long-term application of topical GC on IgE-mediated murine cutaneous (GC) modulates cutaneous inflammatory reactions in addition to known long-standing steroid ointment and termed adult type-atopic been recognized in atopic dermatitis especially in Japan. They are frequently observed in adult patients with atopic dermatitis after a MMARY LANGUAGE: intravenous applications of monoclonal IgE anti-DNP cutaneous anaphylaxis reaction on the ear skin induced by dermatitis. Objective: To clarify whether topical glucocorticoid Background: In a last decade, new types of skin manifestations have 037 Drug Literature Index 013 Dermatology and Venereology Immunology, Serology and Transplantation Journal; Article English

plasma-free lgE levels.

applied on the challenged sites. Several types of GC, but not vitamin D3, augmented the skin reactions and these augmented reactions persisted for 72 h when control skin reactions subsided. topical GC might modulate local cutaneous immune response and mast cell deficient WBB6F1 v/v mice by IgE might be involved in the IgE-mediated late-phase reaction. epsilon. R(+) cells other than mast cell augment lgE-mediated cutaneous reactions. Fc anti-DNP antibody. Conclusion: Long-term application of GC induced a late phase but not an early phase cutaneous reaction in

L13 ANSWER 15 OF 76 MEDLINE

MD 21224, USA.. dmacglas@welchlink.welch.jhu.edu CONTRACT NUMBER: AI07290 (NIAID) SOURCE CORPORATE SOURCE: Johns Hopkins Asthma and Allergy Center, Baltimore, AUTHOR: ACCESSION NUMBER: 97166096
DOCUMENT NUMBER: 97166096 antibody. JOURNAL OF IMMUNOLOGY, (1897 Feb 1) 158 (3) 1438-45. Journal code: IFB. ISSN: 0022-1767. P M; Togias A; McKenzie-White J; Sterbinsky S A; Hamilton R G; Lichtenstein L M A120253 (NIAID) vivo treatment of atopic patients with anti-IgE expression on human basophils during in Down-regulation of Fc(epsilon)RI MacGlashan D W Jr; Bochner B S; Adelman D C; Jardieu 97166096 MEDLINE

FILE SEGMENT: PUB. COUNTRY: Cancer Journals Journal; Article; (JOURNAL ARTICLE) (CLINICAL TRIAL) English United States Abridged Index Medicus Journals; Priority Journals;

allergic diseases could be based.

ENTRY MONTH: ENTRY WEEK: receptors per basophil. Flow cytometric studies, conducted in parallel, showed similar results and also showed in a subset of 3 donors that receptors decreased with a 11/2 of approximately 3 days. 15 subjects receiving humanized anti-IgE mAb intravenously.

Treatment with the anti-IgE mAb decreased free IgE levels to 1% of pretreatment levels and also resulted in a marked down-regulation of Dermatophagoides farinae, was reduced by approximately 90%. One possible explanation for these results is that Fc anti-IgE Ab was marginally decreased (approximately 40%) while the mo of treatment, the densities had decreased to a median of 8,300 approximately 220,000 receptors per basophil and after 3 pretreatment densities of Fc(epsilon)RI were Fc(epsilon)Rl on basophils. Median (epsilon)Ri on human basophils was examined in circulating IgE Ab. Therefore, the expression of IgE and Fc mast cells might also be regulated by levels of epsilon)RI expression on basophils and previous unrelated studies, it appeared likely that Fc( lgE with anti-lgE Abs is currently under clinical study. Based on response of the same cells to stimulation with dust mite Ag, The responsiveness of the cells to IgE-mediated stimulation using epsiton)Rt density is directly or indirectly regulated by Treatment of aftergic disease by decreasing circulating 19970404

Medical Center, Boston, Massachusetts 02215, USA. CONTRACT NUMBER: CA/AI-72074 (NCI)

AUCA-23990 (NIAID) CORPORATE SOURCE: Department of Pathology, Beth Israel Deaconess ACCESSION NUMBER: 97477414
DOCUMENT NUMBER: 97477414 L13 ANSWER 16 OF 76 MEDLINE RI-mediated degranulation by CD81.
Fleming T J; Donnadieu E; Song C H; Laethem F V;
Galli S J; Kinet J P GM-53950 (NIGMS) Negative regulation of Fc epsilon MEDLINE

antibody response against CGP 51901. We conclude that the

a potential therapeutic approach to the treatment of atopic reducIng serum IgE levels in atopic individuals and provides use of anti-human lgE antibody is safe and effective in

SOURCE: LANGUAGE: Journal code: I2V. ISSN: 0022-1007.
PUB. COUNTRY: United States ENTRY MONTH: FILE SEGMENT: Journal; Article; (JOURNAL ARTICLE) (8) 1307-14. Priority Journals; Cancer Journals 199801

JOURNAL OF EXPERIMENTAL MEDICINE, (1997 Oct 20)

ENTRY WEEK: reduced passive cutaneous anaphylaxis responses. These results reveal an unsuspected calcium-independent pathway of antigen receptor regulation, which is accessible to engagement by membrane proteins and on which novel therapeutic approaches to mast cell degranulation in vivo as measured by Furthermore, CD81 antibodies also inhibit surprisingly, without affecting aggregation-dependent tyrosine phosphorylation, calcium mobilization, or leukotriene synthesis RI-mediated mast cell degranulation but, calcium mobilization. Here, we show that antibodies tyrosine and inositol phosphatases that results in diminished activation of tyrosine kinases before calcium mobilization. Receptors capable of interfering with the signaling of antigen Fc epsilon RI) results in the coordinate recognizing CD81 Inhibit Fc epsilon receptors, such as Fc epsilon RI, recruit Signaling through the high affinity receptor for immunoglobulin E ( 19980104

₽ SOURCE: Tse-Wen; Holgate, Stephen
CORPORATE SOURCE: (1) Univ. Med., Centre Block, Southampton General ACCESSION NUMBER: L13 ANSWER 17 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS DOCUMENT TYPE: AUTHOR(S) with the dose of administered antibody and ranged from a mean of 1.3 d for the 3 mg to 39 d for the 100 mg dose. Total IgE, comprised of free and complexed IgE, increased as stored and newly synthesized IgE bound to CGP 51901. Complexed IgE was eliminated at a rate comparable with the terminal half-life of free CGP 51901 gE antibody that binds to free IgE and surface IgE of IgE-expressing B cells but not to IgE bound to high affinity IgE receptors (Fc-epsilon-RI) tolerated and resulted in a decrease of serum free IgE levels in a dose-dependent manner, with suppression after 100 mg of CGP 51901 reaching gt 96%. Time of recovery to 50% of baseline IgE correlated who had raised levels of serum IgE and received either intravenous CGP 51901 or placebo. The administration of CGP 51901 was well placebo-controlled, single dose study with doses of 3, 10, 30, and 100 mg of CGP 51901 was conducted in 33 pollen-sensitive subjects epsilon-R2) on other cells. A phase 1 double-blind affinity IgE receptors (Fcon mast cells and basophils or low (11-13 d at all doses). Only one subject showed a weak CGP 51901 is a non-anaphylactogenic mouse/human chimeric anti-human Journal of Clinical Investigation, (1997) Vol. 99, No. 5, pp. 879-887. Hosp., Tremona Rd., Southampton SO16 6YD UK Lynette; Warner, Jane; Botta, Luigi; Grandordy, Beatrice; Gygax, Daniel; Heusser, Christoph; Patalano, Francesco; Richardson, William; Kilciherr, Erich; Staehelin, Theophil; Davis, Frances; Gordon, pharmacokinetics. chimeric anti-IgE antibody on serum IgE ISSN: 0021-9738. Wayne; Sun, Lee; Liou, Ruey; Wang, Georg; Chang, levels in atopic subjects: Efficacy, safety, and The effect of intravenous administration of a English Corne, Jonathan (1); Djukanovic, Ratko; Thomas, Article PREV199799477256 997:170653 BIOSIS

PUB. COUNTRY: SOURCE: AUTHOR:

Jensen-Jarolim E; Vogel M; Zavazal V; Stadler B M
CORPORATE SOURCE: Institute of General and Experimental Pathology, L13 ANSWER 18 OF 76 MEDLINE ACCESSION NUMBER: 97430885 DOCUMENT NUMBER: 97430885 AB Beta 2-agonists inhibit the release of preformed mediators ENTRY WEEK: ENTRY MONTH: FILE SEGMENT: LANGUAGE: DOCUMENT NUMBER: 98099330 ACCESSION NUMBER: L13 ANSWER 19 OF 76 MEDLINE FILE SEGMENT: ANGUAGE: PUB. COUNTRY: ENTRY WEEK: allergen interactions might present a problem 1) at high IgE concentration, and 2) depend on the grade of sialization of IgE, which might affect its conformation. This may explain why patients TNF-alpha in inflammation and the widespread use of beta 2-agonists, we investigated the effect of long-acting (salmeterol) and factor-alpha (TNF-alpha), there is no information about their regulation by beta 2-agonists. Thus given the importance of important source of several cytokines including turnor necrosis although mast cells have been identified as an such as histamine and newly synthesized mediators such as prostaglandin D2 from mast cells. However, THOR:

Bissonnette E Y; Befus A D

RPORATE SOURCE: Department of Medicine, University of Alberta, RASTs with non-cross-reactive allergens. the tertiary structure of IgE. Thus, nonspecific IgEwas enhanced. Hence, nonspecific allergen-IgE binding may be partly due to a lectin-like interaction, but may depend mostly on lgE was reduced, but nonspecific binding of myeloma lgE-VL binding capacity to altergens in RAST: binding of chimeric basophils was affected by the treatment, as shown in the histamine-release assay. Desialization of IgE affected also its binding of IgE to Fc epsilon receptors on recognized by xenogenic antibodies as native IgEs, but desialized with neuraminidase. Desialized samples were equally well nonspecific binding of IgE to allergens was due to carbohydrate interaction, myeloma IgEs and the chimeric IgE were peptide CH1-CH4, in two different immunoassays. This binding was concentration-dependent but detectable only at higher IgE Nonspecific IgE binding to allergens was observed in testing myeloma IgEs, namely, IgE-VL and IgE-PS, chimeric IgE (IgE-JW6), and the recombinant IgE Fc epsilon TNF-alpha from human skin mast cells. Treatment short-acting (salbutarnol) beta 2-agonists on the secretion of with elevated total IgE levels often have multiple weak positive nonmatching allergens. In order to test whether the concentration. In RAST inhibition, IgE-allergen nteractions could be reduced by using either matching or inhibition of TNF-alpha release from human mast cells. Allgemeines Krankenhaus Wien, Austria. ALLERGY, (1997 Aug) 52 (6) 844-52. Journal code: 39C. ISSN: 0105-4538. Journal; Article; (JOURNAL ARTICLE) Dec) 100 (6 Pt 1) 825-31 Journal; Article; (JOURNAL ARTICLE) Journal code: H53, ISSN: 0091-6749. Nonspecific binding of IgE to allergens Anti-inflammatory effect of beta 2-agonists: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, United States 19980401 199804 Abridged Index Medicus Journals; Priority Journals Priority Journals Denmark 1998099330 MEDLINE MEDLINE **DUPLICATE 6** 

relationship to total serum (gE concentrations.
AUTHOR: Sihra B S; Kon O M; Grant J A; Kay A B
CORPORATE SOURCE: Inperial College School of Medicine, National Heart
and Lung Institute, London. L13 ANSWER 20 OF 76 MEDLINE ACCESSION NUMBER: 97300818 DOCUMENT NUMBER: 97300818 FILE SEGMENT: Journal code: H53, ISSN: 0091-6749.
PUB. COUNTRY: United States SOURCE: ENTRY MONTH: LANGUAGE: significantly with serum IgE concentrations (r = 0.86 and 0.55, respectively; p < 0.001). For each subject, and on all three cell types, the specific mean fluorescence after 22E7 staining was relative receptor expression on these cells and their relationship to atopy are unclear. OBJECTIVE: The aim of this study was to Fc epsllon RI) have been identified on peripheral blood basophils, monocytes, and eosinophils; but the greater than with 15-1, implying some degree of receptor occupancy. CONCLUSION: Fc epsilon RI expression on expression on all three cell types was significantly increased in atopic patients compared with nonatopic control subjects (p < 0.0001 of subjects. Nevertheless, Fc epsilon RI cytometry was used to evaluate Fc epsilon RI the treatment of allergic diseases. receptor or by a tumor target cell. This InhIbitory effect of beta-agonists may be important in their mode of action in cells stimulated through their IgE inhibition of TNF-alpha release. Thus selective beta2-agonists demonstrate anti-inflammatory activity by the inhibition of TNF-alpha release was increased 1 hour lost by 24 hours after removal of salbutamol and isoproterenol (7% nmoI/L) Inhibited the IgE-dependent release of TNF-alpha (82% and 74%, respectively). Moreover, 2-hour treatment with basophiis and barely detectable on eosinophils. Elevated peripheral blood monocytes was considerably less than on basophils and monocytes in all subjects correlated easinophils). Fc epsilon RI expression on both for basophils, p = 0.003 for monocytes, and p = 0.039 for monocytes and was only detectable on eosinophils in a small minority specific mean fluorescence) was greatly reduced on Fc epsilon RI expression (determined by 22E7 noncompetitive). RESULTS: Compared with basophils competes with IgE for receptor binding, and 22E7, which is monoclonal antibodies (15-1, which binding of two anti-Fc epsilon RI alpha-chain expression by determining the specific mean fluorescence of the dermatitis compared with nonatopic control subjects. METHODS: Flow concentrations in subjects with atopic asthma, rhinitis, or types and assess their relationship to total serum IgE compare Fc epsilon RI expression on these cell inhibiting the release of TNF-alpha from mast Furthermore, beta 2-agonists did not show tachyphylaxis for the after removal of salmeterol and remained significant 24 hours later and 11% inhibition remaining, respectively). In contrast, 2-agonists was observed after only 20 minutes of treatment but was was shown with propranolol. The inhibitory effect of beta 29 nmol/L, respectively. Specificity for beta-adrenergic receptors TNF-alpha-sensitive cell line, WEHI-164, with an IC50 of 71, 50, and mast cell cytotoxicity against a salmeterol, isoproterenol, or salbutamol inhibited BACKGROUND: High-affinity IgE receptors ( receptors (Fc epsilon RI) Journal; Article; (JOURNAL ARTICLE) on peripheral blood basophils, monocytes, and eosinophils in atopic and nonatopic subjects: May) 99 (5) 699-706. Expression of high-affinity IgE JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 19970802 Abridged Index Medicus Journals; Priority Journals MEDLINE DUPLICATE 8

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FILE SEGMENT:
ENTRY WEEK:
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FILE SEGMENT:
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Unite INSERM 167, Institut Pasteur, Lille, France.
SOURCE: MEMORIAS DO INSTITUTO OSWALDO CRUZ, (1997) 92
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DOCUMENT NUMBER: 98364066
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SUMMARY LANGUAGE: English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHOR:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L13 ANSWER 21 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 97303666 EMBASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              development of acquired C1-INH deficiency is also of interest. Recent studies suggest that the majority of acquired C1- INH deficiency patients have anti-C1-INH autoantibodies that appear to be responsible for the development of the C1-INH deficiency. In addition, both chronic urticaria and C1-INH deficiency can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 associated with other autoimmune diseases, although the importance of these associations remains to be determined. Recognition of the role of autoantibodies in the pathogenesis of chronic urticaria and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   autoantibodies, and anti-Fc.epsilon.RI autoantibodies. The latter two autoantibodies are particularly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             recognized associations between autoimmunity and swelling was 
largely unknown. It has now become clear that autoimmunity can play 
a critical role in the pathogenesis of chronic urticaria and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            possibility of common regulatory mechanisms was suggested by the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 subjects with all three cell types, suggesting a role for these
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help elucidate the mechanism of autoantibody generation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapeutic approaches that need to be considered in approaching 
patients with chronic urticaria or acquired C1-INH deficiency.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            acquired C1-INH deficiency has altered the range of diagnostic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ultimately be considered an autoimmune disease rather than an altergic disease. The link between autoimmunity and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             likely, therefore, that most cases of chronic unicaria will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  causing mast cell degranulation. It appears
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               receptors and adhesion molecules in eosinophil
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                                                                                                                                                 (REVIEW, TUTORIAL)
                                                                                                                                                                              General Review; (REVIEW)
                                                                                                                                                                                                                  Journal; Article; (JOURNAL ARTICLE)
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                                                                                                                                                                                                                                                                                           Journal code: MRY, ISSN: 0074-0276.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        From allergy to schistosomes: role of Fc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nutten S; Trottein F; Gounni A S; Papin J P; Capron
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AB The dual function of eosinophils has been evidenced in protective

19981204

selectins and their carbohydrate ligands between eosinophils and schistosomula. These results suggest new functions for these thesion molecules, previously known to be involved mainly in cell to selectins in eosinophil-mediated cytotoxicity towards schistosomes and the detection of Le(X) and selectin-like molecules on schistosomula surface indicate a double interaction mediated by mediator release. These results favour the view that both IgE and its receptors have been primarily associated to a protective immune monocional antibodies to Lewis(X) (Le(X) CD15) or effector function. The inhibitory role of shown that Fc epsilon RI, the high affinity epsilon Ril/CD23, was involved in the functional duality of class of IgE receptors, Fc immunity against parasites as well as in pathological manifestations adhesion molecules can participate as co-receptors in eosinophil receptors but also members belonging to the family of response, rather than to pathology. Not only IgE eosinophil-mediated cytotoxicity against schistosomes as well as in basophils and most cells, was involved in IgE receptor thought to be only expressed by eosinophils and other proinflammatory cells. More recently, we have during allergic disorders. We have demonstrated that a new

# L13 ANSWER 23 OF 76 WPIDS COPYRIGHT 1999 DERWENT

DOC. NO. CPI: INFORMATION LTD ACCESSION NUMBER: CROSS REFERENCE: DERWENT CLASS: Treating allergic reactions using antibodies - which bind secreted IgE and N.NUMBER: 96-370594 [37] WPIDS
FERENCE: 89-220465 [30]; 91-022051 [03]; 91-252808 [34];
93-345027 [43]; 94-278985 [34]; 94-357359 [44];
95-206310 [27]; 95-327735 [42]; 96-087117 [09];
96-238825 [24]; 97-201532 [18]; 98-017588 [02]
PI: C96-117495 IgE bound to basophils. membrane-bound IgE on IgE-expressing cells but not CHANG, TW B04 D16

PATENT NO KIND DATE WEEK LA PG

PATENT ASSIGNEE(S): (TANO-N) TANOX BIOSYSTEMS INC

PATENT INFORMATION:

US 5543144 A 960806 (9637)\* EN 16

# APPLICATION DETAILS:

US 5543144 A CIP of US CIP of US CIP of US CIP of US PATENT NO KIND US 93-7180 930121 US 88-226421 880729 US 88-291068 881228 US 89-357483 890526 US 87-140036 871231 APPLICATION DATE

# FILING DETAILS:

PATENT NO KIND

PATENT NO

US 5543144 A CIP of US 5422258 US 5420251

PRIORITY APPLN. INFO: US 93-7180 930121; US 87-140036 871231; US 88-226421 880729; US 88-291068 881228; US 89-357483 890526 AB US 5543144 A UPAB: 980112

the mammal a monoclonal antibody (MAb) having a human IgG1 and IgG3 constant region that binds to secreted IgE and to membrane-bound IgE on IgE-expressing cells but not to IgE bound to basophils. allergic reaction in a mammal, comprises administering to Method (A) for reducing circulating IgE or treating an

Also claimed are:

igE bound to basophils; bound to the Fc epsilon Ril receptor and not to membrane-bound IgE on IgE-expressing cells but not to IgE which is treating allergic reactions in a mammal comprising administering to the mammal a MAb that binds to secreted IgE and to (1) a method (B) for reducing circulating IgE or

Ig-expressing cells but not to IgE which is bound to the Fc that binds to secreted IgE and to membrane-bound IgE on epsilon RII receptor and not to IgE bound to (2) a method (C) for reducing circulating IgE in a nal comprising administering to the mammal an antibody

human comprising administering a MAb having its complementarity determining regions of murine origin and human igC1 or igC3 constant regions an binding to secreted igE and to membrane-bound igE on igE-expressing cells but not to igE bound to basophils. (3) a method (D) for treating allergic reactions in a

bronchial asthma, hay fever and food and drug allergies. hypersensitivity in allergic diseases such as extrinsic USE - The methods can be used to treat IgE-mediated

release of pharmacologic mediators of atlergies. circulating IgE and deplete IgE-producing cells without inducing the ADVANTAGE - The methods can selectively reduce

L13 ANSWER 24 OF 76 MEDLINE ACCESSION NUMBER: 97068418 DOCUMENT NUMBER: 97068418 MEDLINE **DUPLICATE 10** 

and leukotriene generation in human blood Influence of bee venom immunotherapy on degranulation

basophils [see comments].

COMMENT: Comment in: Clin Exp Allergy 1996 Oct;26(10):1101-4
Jutel M; Muller U R; Fricker M; Rihs S; Pichler W J;

Dahinden C

CORPORATE SOURCE: Medical Division, Zieglerspital, Bern, Switzerland.

SOURCE: CLINICAL AND EXPERIMENTAL ALLERGY, (1996 Oct) 26

Journal code: CEB, ISSN: 0954-7894
PUB, COUNTRY: ENGLAND: United Kingdom Journal; Article; (JOURNAL ARTICLE) ENGLAND: United Kingdom

FILE SEGMENT: ENTRY MONTH: LANGUAGE: Priority Journals

AB BACKGROUND: Rapid clinical tolerance can be induced over several 199704

Phospholipase A2 (PLA), IgE receptor cross-linking with the use of monoclonal sc over 3.5 h under intensive care conditions according to an ultra-rush protocol. The release of histamine and the formation of of severe systemic reactions after a bee sting were investigated. A cumulative dose of 111.1 micrograms bee venom (BV) was administered the changes of blood basophil responsiveness during VIT.

METHODS: Seven bee venom allergic patients with a history hours by very fast bee venom immunotherapy (VIT) protocols. OBJECTIVE: To investigate the mechanisms underlying VIT we examined leukotrienes in response to BV, major BV allergen

mediators. However, we believe the basic mechanisms of rapid stimuli used is not affected by ultra-rush VIT, if expressed as per cent release of total histamine. However, the absolute amount determined in vitro before and after ultra-rush VIT. RESULTS: We demonstrated a decrease of total histamine in peripheral blood leucocytes just after VIT. Histamine release in response to all the clinical tolerance induced by ultra-rush VIT remain to be induces impaired release of both preformed and newly generated CONCLUSION: Blood basophils are a target for VIT, which samples stimulated with specific allergen (BV, PLA). significant reduction of LTC4 formation after VIT in particularly with allergen (BV, PLA). We also found a product released in response to stimulation was decreased, as well as IgE independent activation in response to C5a were antibodies against IgE and IgE receptor,

L13 ANSWER 25 OF 76 MEDLINE DUPLICATE 11

> ACCESSION NUMBER: 96185818
> DOCUMENT NUMBER: 96185818 MEDLINE

AUTHOR: E receptor type I human basophils through the immunoglobulin Protein tyrosine kinases in activation signal of

CORPORATE SOURCE: Groupe d'Immuno-Hematologie Moleculaire, Centre National de la Recherche Scientifique, Paris, France.
SOURCE: JOURNAL OF LEUKOCYTE BIOLOGY, (1998 Mar) 59 (3) Michel L; LeGoff L; Michel A; Mencia-Huerta J M; Lejeune F; Casassus P; Debre P; Arock M Benhamou M; Feuillard J; Lortholary O; Bourgeois C;

Journal code: IWY, ISSN: 0741-5400, PUB, COUNTRY: United States 461-70.

LANGUAGE: Journal; Article; (JOURNAL ARTICLE) English

FILE SEGMENT: ENTRY MONTH: 199607 Priority Journals; Cancer Journals

₽ Human basophils activated through high-affinity

immunoglobulin E (IgE) receptors (Fc epsilon RI) are involved in the late phase of the

epsilon RI. Aggregation of Fc epsilon RI by IgE and anti-IgE, IgE and antigen, or anti-Fc staining, morphology, ultrastructure, and flow cytometry analysis, and only basophils in ABL cells expressed Fc basophils at various stages of maturation as assessed by basophilic leukemia (ABL) cells in culture as well as a pure population of normal basophils in vitro-derived from human of protein-tyrosine kinases in this activation we used human acute bone marrow precursor cells (HBMB). ABL cells were 50-80% allergic reaction. To investigate the possible involvement

cells or on HBMB, led to increased tyrosine phosphorylation of 120, 100-, 80-, 72-, 50- to 65-, and 38-kDa substrates. Tyrosine epsilon Ri monocional antibodies on ABL

development of the allergic reaction in basophils. Tyrosine kinases and their substrates could InhIbitor genistein. The tyrosine kinase p72syk was detected in the cells. Stimulation of ABL cells for 1 min resulted in represent new potential therapeutic targets to prevent the the early steps of human Fc epsilon RI signaling phosphorylations in ABL cells were in basophlis because 1) they were detected after a 5-s stimulation, 2) they were observed under conditions where mediator release is minimal, i.e., in the activation of p72syk. Therefore, tyrosine kinases are involved in extracellular calcium-independent tyrosine phosphorylation and dose-responses and in dose-responses of the tyrosine kinase absence of extracellular calcium, 3) hapten addition during antigen stimulation resulted in almost total disappearance of tyrosine phosphorylations within 30 s. There was correlation between histamine release and tyrosine phosphorylation in anti-IgE

ACCESSION NUMBER: 1996:108058 BIOSIS DOCUMENT NUMBER: PREV199698680193 L13 ANSWER 26 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS ACCESSION NUMBER: 1996:108058 BIOSIS Interleukin-10 Inhibits cytokine generation

AUTHOR(S): from mast cells. Arock, Michel; Zuany-Amorim, Claudia; Singer,

CORPORATE SOURCE: (1) Unite Pharmacol. Cell., UA Inst. Pasteur/INSERM no. 285, rue du Dr. Roux, F-75015 Paris France Monique; Benhamou, Marc, Pretolani, Marina (1)

SOURCE: European Journal of Immunology, (1996) Vol. 26, No.

1, pp. 166-170. ISSN: 0014-2980.

DOCUMENT TYPE: English Article

AB This report examines the effect of recombinant murine interleukin-10

albumin (DNP-BSA) and challenged with 10 ng/ml DNP-BSA generated beta-hexosaminidase and LTC-4-like material, which was followed by tumor necrosis factor-alpha (TNF-alpha) and granulocyte-macrophage (mlL-10) on antigen-induced beta-hexosaminidase, leukotriene (LT)C-4 and cytokine release from mouse bone marrow-derived mast cells (BMMC). BMMC sensitized to haptenmonoclonal IgE directed against dinitrophenol-bovine serum colony-stimulating factor (GMCSF) mRNA expression and protein

cytokine production by stimulated mast cells. BMMC, suggesting that down-regulation of cytokine production by rmlL-10 involves different mechanisms. These results identify a novel biological action of IL-10 as an Inhibitor of beta-hexosaminidase and LTC-4-like material release. TNF-alpha, but not GM-CSF mRNA expression, was also diminished in rmlL-10-treated Inhibited cytokine generation, without affecting release. Incubation of BMMC with 1-100 ng/ml rmlL- 10 **DUPLICATE 12** 

L13 ANSWER 27 OF 76 MEDLINE ACCESSION NUMBER: 96354665 DOCUMENT NUMBER: 96354665 MEDLINE

proinflammatory mediators from human Oxatomide inhibits the release of

AUTHOR: basophils and mast cells.
Patella V; de Crescenzo G; Marino O; Spadaro G;

Genovese A, Marone G
CORPORATE SOURCE: Division of Clinical Immunology and Allergy, Faculty
of Medicine, University of Naples Federico II, Italy. IMMUNOLOGY SOURCE: INTERNATIONAL ARCHIVES OF ALLERGY AND

(1996 Sep) 111 (1) 23-9. Journal code: BJ7. ISSN: 1018-2438. COUNTRY: Switzerland Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
AB Oxatomide (O) Oxatomide (OXA), a histamine H1 receptor antagonist, is effective in 199612

Priority Journals

the treatment of patients with allergic rhinitis, some allergic skin disorders, and bronchial asthma. We have characterized the effect of OXA on the immunologic release of preformed (histamine and tryptase) and de novo synthesized mediators basophils and mast cells purified (from (leukotriene C4:LTC4 and prostaglandin D2:PGD2) from human

10 to 82%) from human lung parenchyma (HLMC) and skin tissue (HSMC). Preincubation (15 min, 37 degrees C) of basophils with OXA (10(-7)-10(-5) M) before Der p I antigen or anti-IgE challenge concentration-dependently (10-40%) inhibited the immunologic release of histamine and LTC4. OXA (10(-7)-10(-5) M) also Inhibited (10-40%) histamine, tryptase and LTC4.

release from HLMC activated by anti-IgE. In addition, OXA caused a concentration-dependent inhibition of histamine, typtase and PGD2 release from HSMC immunologically challenged with a

RI) or anti-IgE. These results demonstrate that OXA exerts anti-inflammatory activities by inhibiting the release of monoclonal antibody against the alpha chain of the high affinity receptor for IgE (anti-Fc epsilon

basophils and mast cells preformed and de novo synthesized mediators from human

DOCUMENT NUMBER: 95403969 ANSWER 28 OF 76 MEDLINE SSION NUMBER: 95403969 Antigen-specific inhibition of IgE binding to the high-affinity receptor. MEDLING

AUTHOR: Stampfli M R; Rudolf M; Miescher S; Pachlopnik J M;

SOURCE: 54. Stadler B M

CORPORATE SOURCE: Institute of immunology and Allergology, University of Bern, Switzerland. JOURNAL OF IMMUNOLOGY, (1995 Sep 15) 155 (6) 2948

Journal code: IFB. ISSN: 0022-1767.

PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE)
English

FILE SEGMENT: LANGUAGE: Cancer Journals Abridged Index Medicus Journals; Priority Journals;

ENTRY MONTH: 199512

₽ disorders, in addition to the long-term clinical efficacy of this therapy, there are immediate beneficial effects as observed in rush immunotherapy for which there is no clear mechanism. We investigated mmunotherapy has been widely used to treat allergic Since the beginning of this century, altergen

> resulting in the short-term alteration of symptoms by blocking or substantially reducing binding of IgE to its high-affinity receptor. Thus, our result may explain some of the short-term or myeloma IgE. To mimic particulate and soluble allergens we coupled 15 NIP molecules to BSA. Using this "artificial high-affinity receptor for IgE. As a model we used a chimeric IgE specific for NIP that exhibits similar biologic properties as serum preincubated with the Ag, no sulfidoleukotriene release could be induced. Rush immunotherapy may invoke a similar phenomenon, basophils passively sensitized with IgE that was biosensor that monitors molecular interactions. In normal IgE binding to the Fc epsilon RI was 60% allergen" we could show that the presence of the Ag measurability in immunoassays and subsequent binding of IgE to the the direct impact of an Ag on its specific IgE in terms of IgE beneficial effects observed in rush immunotherapy. inhibited in the presence of the Ag shown with an optical reduced the IgE measurability in immune assays. Furthermore,

ACCESSION NUMBER: 95164687 DOCUMENT NUMBER: 95164687 L13 ANSWER 29 OF 76 MEDLINE MEDLINE

Regulation of high-affinity IgE

AUTHOR: Daeron M; Malbec O; Latour S; Arock M; Fridman W H
CORPORATE SOURCE: Laboratoire d'Immunològie Cellulaire et Clinique,
INSERM U255; Institut Curie, Paris, France,
SOURCE: JOURNAL OF CLINICAL INVESTIGATION, (1995 Feb) 95 (2) receptor-mediated mast cell activation by murine low-affinity IgG receptors

577-85

Journal code: HS7, ISSN: 0021-9738.
PUB. COUNTRY: United States

Journal, Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Abridant I... Cancer Journa Abridged Index Medicus Journals; Priority Journals;

199505

ENTRY MONTH:
AB Allemin cell and basophil high-affinity IgE process is initiated by the aggregation of mast lipidic mediators and of cytokines by inflammatory cells. The whole Allergic symptoms result from the release of granular and

cytokine can be inhibited by cross-linking Fc epsilon RI to low-affinity IgG receptors (Fc gamma RII) which are constitutively expressed on mast cells and basophils. Using a model of stable transfectants in receptors (Fc epsilon RI) by IgE and antigen. We report here that IgE-induced release of mediator and

that inhibition requires that Fc epsilon RBL-2H3 cells expressing endogeneous rat Fc epsilon RI and recombinant murine Fc gamma RII, we showed

Fc epsilon RI capable of triggering mediator Rt be crosslinked to Fc gamma Rtl by the same multivalent ligand release and was reversible upon disengagement. Both isoforms of Inhibition of cross-linked receptors left non-cross-linked

Fc epsilon RI-mediated mast cell results demonstrate that mast cell secretory Fc epsilon RI-mediated mast cell activation is of potential interest in mast cell controlled by low-affinity receptors for IgG. This regulation of responses triggered by high-affinity receptors for IgE may be activation provided they had an intact intracytoplasmic domain. Our wild-type Fc gamma RII were equally capable of inhibiting

physiology and in allergic pathology.

L'13 AKSWER 30 OF 78 BIOSIS COPYRIGHT 1899 BIOSIS DUPLICATE 13
ACCESSION UNMBER: 1986.24825 BIOSIS
DOCUMENT NUMBER: PREV199698586960 CORPORATE SOURCE: (1) Osaka Prefectural Inst. Public Health, 1-3-69, AUTHOR(S): Effect of the crude drugs (standards of natural drugs not in the J.P. XII) on beta-haxosaminidase release from rat basophilic leukemia (RBL\_2H2) cells.

Kataoka, Masahiro (1); Takagaki, Yutaka

Nakamichi, Higashinari-ku, Osaka 537 Japan

SOURCE: 346-349 Natural Medicines, (1995) Vol. 49, No. 3, pp.

ISSN: 1340-3443

DOCUMENT TYPE:

AB Immediate allergy is caused by chemical mediators released LANGUAGE: Japanese SUMMARY LANGUAGE: Japanese;

due to combination of antigen-immunoglobulin E (IgE) by basophiles and mast cells on degranulation

basophilic leukemia (RBL-2H3) are known to secrete these chemical mediators under various stimulations. By using the cells of RBL-2H3, antibody complex with the cell-surface IgE receptor. The cells of the established cell line, rat

67 crude drugs on the biotinyl IgE-avidin complex-induced release of a chemical mediator, beta-hexosaminidase from the cells. The extracts of Malioti Cortex, Pectranthi Herba, Artemisiae Folium, Pogostemoni Herba, Crataegi Fructus, Kaki Calyx, Uncariae Uncis Cum Ramlus, Trapae Fructus, Eriobotiyae Folium, Quercus Cortex and we investigated the Inhibitory effect of water extracts of

from the cells by more than 50%. **DUPLICATE 14** 

Longan Arillus inhibited the beta-hexosaminidase release

ACCESSION NUMBER: 96159699
DOCUMENT NUMBER: 96159699 ACCESSION NUMBER: 96159699 MEDLINE

in human serum Evidence for IgG autoantibodies to galectin-3, a beta-galactoside-binding lectin (Mac-2, epsilon binding protein, or carbohydrate binding protein 35)

AUTHOR: Mathews K P; Konstantinov K N; Kuwabara I; Hill P N;
HSU D K; Zuraw B I; Liu F T
CORPORATE SOURCE: Department of Molecular & Experimental Medicine,
Scripps Research Institute, La Jolla, California

92037, USA. CONTRACT NUMBER: RR00833 (NCRR) Al32834 (NIAID)

SOURCE: JOURNAL ÓF CLINICAL IMMUNOLOGY, (1995 Nov) 15 (6)

Journal code: HRC. ISSN: 0271-9142.
PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

ENTRY MONTH: FILE SEGMENT: Priority Journals 199605

AB Galectin-3 is a beta-galactoside-binding animal lectin formerly called epsilon protein, Mac-2, carbohydrate binding protein 35, C 30, L-29, or L34. The possible occurrence of autoantibodies to CBI

to IgE or Fc epsilon RI might produce mediator galectin-3 was investigated because crosslinking of galectins bound

allergic symptoms was found to have a significantly elevated level of IgG anti-galectin-3 by ELISA employing galectin-3-coated wells incubated with test serum followed by HRPO-conjugated goat anti-human IgG. The reaction was not Inhibitable by Unexpectedly, a control serum from an individual free of current release from mast cells or basophils.

lactose, suggesting that it is not a result of binding of IgG by galectin-3 through lectin-carbohydrate interactions. The antibody activity was specifically adsorbed by galectin-3 and protein A-conjugated Sephanose and was associated primarily with subclass IgG1. The presence of the antibodies was confirmed by immuncablotting showing binding of IgG to the 30-kD galectin-3 band. The relevant epitopes were in the galectin-3 N-terminal domain. The propositus was subsequently found to have adenocarcinoma of the colon, and titers of IgG anti-galectin-3 were found to be sharply elevated after hemicolectomy. Similar a trend for it to occur in older persons pathogenesis of this autoimmune reaction is unclear, though there is antibodies at lower titers than the propositus. The small numbers of normal persons and patients with malignant antibody titers have not been found in family members, but neoplasms have been found to have evidence of IgG anti-galectin-3

L13 ANSWER 32 OF 76 MEDLINE ACCESSION NUMBER: 96028104

SOURCE: PUB. COUNTRY: Netherlands L13 ANSWER 33 OF 76 MEDLINE ACCESSION NUMBER: 95348516 MEDLINE DOCUMENT NUMBER: 95348516 CONTRACT NUMBER: G; Maglitto R; Stacker S A; Dunn A R
CORPORATE SOURCE: Ludwig Institute for Cancer Research, Melbourne AUTHOR: Lowe J, Jardieu P, VanGorp K, Fei D T
CORPORATE SOURCE: Department of BioAnalytical Technology, South San PUB. COUNTRY: FILE SEGMENT: LANGUAGE: FILE SEGMENT: ENTRY MONTH: AUTHOR: DOCUMENT NUMBER: 96028104 \_ANGUAGE: all to mediate an allergic response to IgE cross-linking, indicating that activation of LYN plays an indispensable role in Fc epsilon RI signaling. Lyn-I- mice have of ragweed. The release of histamine was time, temperature and Ca2+ dependent. This ragweed-induced histamine release could be Inhibited by rhuMAbE25 in a dose-dependent fashion with an glomenulonephritis caused by the deposition of IgG immune complexes in the kidney, a pathology reminiscent of systemic lupus erythomatosus. Collectively, these results implicate LYN as having an indispensable role in immunoglobulin-mediated signaling. challenged with standardized mite, D. farinae, house dust mix, containing the respective allergen-specific IgE and then reteased when the cells were presensitized with human plasma This RMCHA correlates well with the human basophII histamine assay (HBHA) (Fei et al., 1894) with a correlation coefficient of 0.83 (n = 59, p < 0.0001). Histamine was also IC50 of 1.19 +/- 0.31 micrograms/ml (n = 25). Other humanized MAbs and recombinant human growth factors neither trigger histamine release. for ragweed and challenged with ragweed allergen in the presence of 50% D2O. Histamine release plateaus at 0.1 micrograms/ml igE receptor (Fc epsilon RI), transfected with the alpha subunit of the high affinity human humanized, monoclonal anti-IgE antibody (rhuMAbE25). Rat mast cells (RBL 48), particularly in establishing B cell tolerance. circulating autoreactive antibodies, and many show severe numbers of recirculating B lymphocytes, Lyn-/- mice are immunoglobulin M (IgM) hyperglobulinemic. Immune responses to T-independent and T-dependent antigens are affected. Lyn-/- mice mast cell function. Despite reduced allergen-induced histamine release showed a good correlation standardized cat pelt, or Alternaria tenuis. Comparison of were presensitized for 2 h with human plasma containing IgE specific abnormalities associated with the B lymphocyte lineage and in Mice homozygous for a disruption at the Lyn locus display eveloped to quantitate the biological activity of a recombinant A rat mast cell histamine assay (RMCHA) has been mast cells transfected with the Journal; Article; (JOURNAL ARTICLE Francisco, CA 94080, USA...
JOURNAL OF IMMUNOLOGICAL METHODS, (1995 Jul 17) alpha subunits of Fc epsilon RI. Lyn-deficient mice, culminating in autoimmune Journal; Article; (JOURNAL ARTICLE) disease. CELL, (1995 Oct 20) 83 (2) 301-11. Journal code: CQ4, ISSN: 0092-8674. Journal code: IFE, ISSN: 0022-1759 (1) 113-22. Victoria, Australia. umour Biology Branch, Royal Melbourne Hospital, Multiple defects in the immune system of Allergen-induced histamine release in rat Hibbs M L; Tarlinton D M; Armes J; Grail D; Hodgson United States 199602 Priority Journals; Cancer Journals 199511 Priority Journals; Cancer Journals A1-03958 **DUPLICATE 16** 

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(1985 May-Jun) 107 (1-3) 48-50. Ref: 9
Journal code: BJ7. ISSN: 1018-2438.
PUB. COUNTRY: Switzerland
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Journal code: H53. ISSN: 0091-6749.
PUB. COUNTRY: United States
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DOCUMENT NUMBER: 94365327
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FILE SEGMENT:
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                                                                                                                                                                                                                                                                                                                                                                                                                            AB Mast cells express fibronectin-receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE SEGMENT:
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Ra C; Yasuda M; Yagita H; Okumura K

CORPORATE SOURCE: Department of Immunology, Juntendo University,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽
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                                                                                                                                                                                                                                                                                activation. In this study rat and mouse mast cells adhered to fibronectin through very late antigen 4, 5 (beta 1 integrin) and vitronectin receptor (beta 3 integrin), and engagement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      In vivo experiments using anti-IgE antibodies have clearly
documented that they inhibit IgE production. In vitro
experiments showed that not only IgE synthesis but also the effector
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        between RMCHA and HBHA with a correlation coefficient of 0.89 (n = 37, p = 0.0001). We conclude that RMCHA provides a useful tool to
aggregation was also enhanced, but not the expression of cytokine genes, with the exception of interleukin-3. Interleukin-3 gene
                                                                                                                                        antibodies remarkably reduced passive cutaneous
                                                                                                                                                                              Blocking of these adhesion molecules by monoclonal
                                                                                                                                                                                                                cross-linking of the high-affinity lgE receptor.
                                                                                                                                                                                                                                                      of these receptors promoted cellular degranulation induced by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          anti-idiotypes, but anti-isotypes were also isolated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and selected anti-IgE antibodies using phage display libraries. Most of the human anti-IgE antibodies were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  naturally occurring anti-IgE autoantibodies possess similar biological activity. To generate such antibodies for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sensitization with IgE or even remove IgE-receptor bound IgE molecules. However, the question remains whether
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  anti-lgE antibodies can prevent basophil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    phase of the allergic response may be influenced, because
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        proteins and growth factors normally present in whole blood
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          confirm allergen-specific IgE in allergic
                                                                       mast cells on IgE receptor
                                                                                                      anaphylaxis reaction in vivo. On fibronectin, cytokine release from
                                                                                                                                                                                                                                                                                                                                                                                              integrins on the cell surface, which are involved in cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    necessary in vitro studies, we have cloned human Ig variable genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gE-mediated histamine release in the absence of interfering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    provides an unique opportunity to study the mechanism of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mast cell activation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             role in the regulation of IgE synthesis.
Stadler B M; Stampfli M R; Miescher S; Rudolf M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Journal; Article; (JOURNAL ARTICLE)
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JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY,
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General Review; (REVIEW)
(REVIEW, TUTORIAL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sep) 94 (3 Pt 2) 625-8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fibronectin receptor integrins are involved in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cloning of human anti-lgE autoantibodies and their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INTERNATIONAL ARCHIVES OF ALLERGY AND
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the role of cAMP and nitric oxide [see comments].

COMMENT: Comment in: J Clin Invest 1995 Jan;56(1):437

AUTHOR: Becherel P A; Mossalayi M D; Le Goff L; Ouaaz F;

Dugas B; Guillosson J J; Debre P; Arock M

CORPORATE SOURCE: Molecular Immuno-Hematology Group, CNRS URA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HILE:
FILE SEGMENT:
ENTRY MONTH:
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ACCESSION NUMBER: 1994:436546 BIOSIS
DOCUMENT NUMBER: PREV199487445546
                                                                                                                                                                                                  Journal code: BNA. PUB. COUNTRY: France
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                                                                                  LANGUAGE:
                                                                                                                                                                                                                                                                                                                       SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AB We demonstrate using primary mast cell cultures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOCUMENT TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CD45 does not induce degranulation. Degranulation in these mutant cells does occur after treatment with the calcium ionophore A23187 indicating that the degranulation machinery is intact in these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        is an essential component.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          receptor, expanding the number of receptors for which CD45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               systemic anaphylaxis. These results show that, like the T cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cross-linking of CD45 by anti-CD45 antibodles. Finally, we show that CD45-deficient mice are resistant to IgE-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IgE) receptor requires the cell surface tyrosine
phosphatase CD45. Unlike wild-type cells, cross-linking of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell triggering through the high-affinity immunoglobulin E (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         develop new strategies to manipulate these molecules for medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mast cells in the microenvironment are actually
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for cellular activation. Taking into consideration the fact that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       indicate that the engagement of fibronectin-receptor integrins on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cells on fibronectin. Our findings presented here clearly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         contributes to the prolonged survival of mast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the autocrine or paracrine system of interleukin-3 secretion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      requirement for CD45 in signaling via the high affinity IgE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             receptor and the antigen receptor on B cells, there is an absolute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 degranulation in wild-type mast cells, as does
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inhibitors orthoVanadate and perVanadate inhibit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cells. We also demonstrate that the tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               surface-bound IgE in mast cells deficient in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   derived from wild-type and CD45-deficient mice that mast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           intervention in allergy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cells in the allergic state, and we hope to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                identified significant roles of adhesion molecules on mast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           surrounded by other cells and extracellular matrix proteins, we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mast cells increases the sensitivity of the cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fibronectin with a prolonged survival of the cells, suggesting that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mast cells and significantly increased on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression was constitutively observed in mouse-cultured
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IgE-dependent activation of Fc epsilon RII/CD23+ normal human keratinocytes:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mast cells.
                                                                                                                                                                                                                                                                                                                   Pitie-Salpetri ere Hospital, Paris, France.
CELLULAR AND MOLECULAR BIOLOGY, (1994 May) 40 (3)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               East, Toronto, ON M4 1J3 Canada
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                                                                                                            Journal: Article; (JOURNAL ARTICLE)
                                                                                                                                                                (DUPLICATE PUBLICATION)
                                                                                                                                                                                                                                                                                    283-90
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English
        199501
                                           Priority Journals
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AB Epidermal keratinocytes (EK) are exposed to multiple inflammatory

these cells, as this is completely abolished by cAMP or NO synthase antagonists. Human epithelial keratinocytes may thus participate in IgE-mediated immune responses, through their ability to express unctional CD23 antigen. nitrites released in cell supernatants, and the accumulation of intracellular cyclic nucleotides in EK. These second messengers are oxide-dependent pathway, as demonstrated by the high levels of dose-dependent release of interleukin-6 and tumor necrosis factor-alpha from EK. CD23-ligation activates the nitric specific monoclonal antibody, induces a showed that the ligation of CD23 by lgE/anti-lgE immune complexes or epsilon RII/CD23) on their surface. In the present study, we express the low affinity receptor for IgE (Fc stimulation with interleukin-4 (IL-4) or interferon-gamma, human EK nfections. We have previously demonstrated that following ibroblasts) during wounding, cutaneous allergy and lymphocytes, mast-cells, macrophages, stimuli and paracrine factors secreted by various dermal cells equired for IgE-dependent stimulation of cytokine production by

CCESSION NUMBER: 95177943 CUMENT NUMBER: 95177943 CUMENT NUMBER: 95177943 LE: of anti-IgE antibodies of IL-4 antagonists for the treatment of allergic diseases. Immunoregulation in aftergy: the potential MEDLINE **DUPLICATE 21** 

(BUNDESAMT FUR 283-9; discussion 289-9: SERA UND IMPESTOFFE) ZU FRANKFURT A.M., (1994) (87)

PUB. COUNTRY: Journal code: AEX. ISSN: 0066-5665.
VTRY: GERMANY: Germany, Federal Republic of Journal: Article; (JOURNAL ARTICLE)

LANGUAGE: ENTRY MONTH: English 199506

production of IL-4 and IL-5. Initially, IL-4 may be provided by basophils and/or mast cells which have responses, not only in inducing the switch of B cells to the production of IgE antibodies but also in promoting the differentiation of T cells to the TH2 phenotype leading to the

generated, which were shown to inhibit IgE in vivo without inducing anaphylactic reactions. A corresponding humanized non-anaphylactogenic anti-IgE antibodies have been allergen and independent of the state of immunization, lgE+B cells may persist for a prolonged period leading to further lgE responses which are IL-4-independent. In order to achieve InhIbition of IgE, independent of the nature of the

L13 ANSWER 39 OF 76 MEDLINE DUPLICATE 22

CORPORATE SOURCE: Service d'Immunologie, Centre Hospitalier, Faculte Regulation de la production des IgE chez l'homme Dessaint J P; Labalette M

SOURCE Ref: 43 Medecine, Lille.. ALLERGIE ET IMMUNOLOGIE, (1994 Sep) 26 (7) 238-47

Journal: Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)
LANGUAGE: Franch

AUTHOR: Heusser C
CORPORATE SOURCE: Ciba-Geigy Ltd., Basel, Switzerland..
SOURCE: ARBEITEN AUS DEM PAUL-EHRLICH-INSTITUT

AB IL-4 plays a crucial role in the induction of allergic been shown to produce IL-4 as a consequence of IgE

receptor-mediated stimulation. However, after immunization

(mouse-human chimeric) anti-human IgE antibody has been generated in collaboration between Tanox Biosystems and Ciba. This potential treatment of allergic rhinitis. antibody is now under clinical investigation for the

ACCESSION NUMBER: 95077666 MEDLINE
DOCUMENT NUMBER: 95077666
TITLE: [Regulation of the production of igE in man].

Journal code: AEI. ISSN: 0397-9148.

FILE SEGMENT: ENTRY MONTH: Priority Journals

AB Allergy is associated with elevated production of allergen-specific IgE antibody. Naive allergen-specific B cells undergo a series of molecular

engagement of two pairs of complementary cell-surface proteins, CD21/CD23. Among the many cytokines secreted by helper T cells, interleukin-4 is necessary for the class switch to IgE, and IL-13 cells express a ligand for CD40 that rescues germinal centre B cells from programmed cell death. Contact with follicular dendritic cells or other T and B cells promotes differentiation into plasma through also triggers switching to IgE. Then, IgE would participate to feed-back regulation of its production by acting at different specific B cells have to receive signals from cell-surface proteins and cytokines from their various cellular partners. Activated T levels. When bound to CD23, also known as Fc gE antibody. Besides allergen recognition, interactions before they would produce allergen-specific

epsilon receptor type II, IgE immune complexes Inhibit CD21/CD23 cell-cell interactions. When bound to Fc epsilon receptor type I on Langerhans' cells in

via their Fc epsilon Receptor type I-bound IgE, activation of mast cells or basophils, presentation to T cells and promotes their differentiation into type 2 helper T cells that secrete IL-4 but no interferon-gamma. Local the skin or mucosa, IgE antibody enhances allergen

would trigger secretion of various cytokines, IL-4 in particular, and expression of CD21 and CD40 ligand, which altogether could replace contact with T cells to deliver the co-stimulatory signals for localised IgE production.(ABSTRACT TRUNCATED AT 250 WORDS)

L13 ANSWER 40 OF 76 MEDLINE
ACCESSION NUMBER: 94225108
DOCUMENT NUMBER: 94225108
TITLE: Anti-IgE autoantibodies in asthma: a diagnostic

artefact or an explanation for non-allergic

AUTHOR: Stadler B M
CORPORATE SOURCE: Institute of clinical immunology, Inselspital, Bern..
SOURCE: REVUE MEDICALE DE LA SUISSE ROMANDE, (1994 Mar)

(3) 199-201. Journal code: SR5. ISSN: 0035-3655.

PUB. COUNTRY: Journal, Article, (JOURNAL ARTICLE)

LANGUAGE:

æ ENTRY MONTH: release from basophils, that enhance or inhibit binding of IgE to the low IgE receptor and either stimulate or inhibit human IgE synthesis. Based on therefore the functional properties of such autoantibodies. Depending on the studied in vitro system one can always detect atopic disease, but occasionally elevated levels are also found in sera of normal individuals. During the last years we studied have been found that either trigger or inhibit mediator minimally two different antibody types. Antibodies Autoantibodies to IgE can be detected in sera of individuals with 199408

igE as for example in those bee sting altergic individuals where we could not detect specific IgE but found IgE hidden within immune complexes, suggesting that the biological activity of IgE was not neutralized. A similar phenomenon may exist in asthmatic individuals. In a recent study we found that non-atopic asthmatic children had indeed low levels of serum IgE. but showed the same levels of autoantibodies to IgE, against suggesting that IgE was hidden within immune complexes. Thus, our ongoing research addresses the question whether in diseases of unclear atopic origin IgE may nevertheless play a critical role but based on possible antefacts in the IgE detection assays some of the clinically relevant IgE may such in vitro experiments one may conclude that also in vivo autoantibodies exist that either neutralize IgE or have no effect on IgE mediated clinical events. Thus, anti-IgE autoantibodies may hide

L13 ANSWER 41 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS

ACCESSION NUMBER: 1994;309636 BIOSIS DOCUMENT NUMBER: PREV199497322636 A novel bioactivity assay for monoclonal

AUTHOR(S): Fei, David Tai Wai (1); Lowe, John; Jardieu, Paula CORPORATE SOURCE: (1) Dep. Bioanalytical Technol., 460 Point San Bruno Blvd., South San Francisco, CA 94080 USA SOURCE: AUTHOR(S): antibodies directed against IgE. Journal of Immunological Methods, (1994) Vol. 171,

No. 2, pp. 189-199. ISSN: 0022-1759.

DOCUMENT TYPE: English Article

the assay can be used to confirm IgE-mediated allergic responses and to provide early information regarding safety and potential efficacy of therapeutics aimed at blocking IgE dependent to 1 mu-g/ml. Preincubation with other humanized MAbs, which exhibit 95% homology to rhuMAbE25 but differ in epitope specificity, failed to inhibit the ragweed-induced histamine release. Overall, other anti-allergy therapeutics are capable of blocking this bioactivity assay has a low interassay variability (%CV) of 17% (n = 23) and can be readily modified to determine if rhuMAbE25 or inhibited by rhuMAbE25 with an effective dose range from 0.1 oxide. Allergen-triggered release could be dependent, and could be enhanced by the presence of 33% deuterium by ragweed allergen was time, temperature and Ca-2+ Histamine was released in a dose-dependent fashion and reached plateau levels after 30 min. As expected, the release of histamine specimens from prescreened healthy donors were sensitized for 2 h with a constant amount of human plasma containing IgE specific for antibody (rhuMAbE25) in human whole blood. Heparinized blood histamine release elicited by other allergens. Moreover, biological activity of a humanized, monoclonal anti-IgE ragweed and then challenged with ragweed allergen A novel bioactivity assay has been developed to quantitate the

ACCESSION NUMBER: 93-215448 [27] WPIDS DOC. NO. CPI: C93-095520 INFORMATION LTD L13 ANSWER 42 OF 76 WPIDS COPYRIGHT 1999 DERWENT

responses

antibodies - for treatment of New anti-human immunoglobulin ∈ monoclonal

allergic diseases, and isolation, analysis and diagnosis.

INVENTOR(S): WASHIDA, N; YOSHIDA, T PATENT ASSIGNEE(S): (SNOW) SNOW BRAND MILK PROD CO LTD COUNTRY COUNT: 16 PATENT INFORMATION: DERWENT CLASS: WASHIDA, N; YOSHIDA, T

PATENT NO KIND DATE WEEK LA PG

JP 05199895 A 930810 (9336) 12
CA 2086131 A 930625 (9337)
ZA 9210006 A 930625 (9340) 38
EP 550020 A3 940824 (9531)
US 6625039 A 970429 (9723) 15
EP 550020 B1 970827 (9739) EN 19
R: ATI BE CH DE DK ES FR GBIT LINL SE
DE 89221845 E 911002 (9745) EP 550020 A2 930707 (9327)\* EN 19
R: AT BE CH DE DK ES FR GB IT LINL SE ES 2106815 T3 971116 (9801)

# APPLICATION DETAILS:

US 5625039 A Cont of	EP 550020 A3	ZA 9210006 A	CA 2086131 A	JP 05199895 A	EP 550020 A2	PATENT NO KIND
US 92-994503 921221	EP 92-121934 921223	ZA 92-10006 921223	CA 92-2086131 921223	JP 91-357005 911224	EP 92-121934 921223	APPLICATION DATE

PRIORITY APPLN. INFO: JP 91-357005 911224 09/090,375 cells having an Fc epsilon receptor antibodies (MAbs) specifically bind to human IgE. They he the following properties: (a) a mol. wt. of 150,000 detd. by DE 69221845 E Based on ES 2106815 T3 Based on SDS-PAGE (non-reduced state), (b) bind to human PATENT NO KIND EP 550020 B1 DE 69221845 E lgt-producing B cells, (c) recognise IgE bound to human or canine The anti-human immunoglobulin E (IgE) monoclonal ES 2106815 T3 EP 550020 A UPAB: 931116 The MAb-producing cells were obtd. using IgE antibody DE 92-621845 921223 EP 92-121934 921223 EP 92-121934 921223 US 94-336569 941109 EP 92-121934 9 PATENT NO EP 550020 EP 550020 921223 They have

las immunogen. Pref. human derived purified IgE antibody is obtd. from sera of autoimmune disease patients or from culture

Fe epsilon receptors on the surface of mast cells supernatant of IgE-producing cells.
USE/ADVANTAGE - The MAbs recognise and dissociate IgE bound to and basophils and inhibit the release of

be used for the selective isolation and analysis of IgE and for chemical mediators from these cells. The MAbs can be used for the treatment of allergic diseases. Furthermore, the MAbs can

L13 ANSWER 43 OF 76 MEDLINE ACCESSION NUMBER: 93367111 DOCUMENT NUMBER: 93367111 allergic reactivity of children in a tropical Sium Effect of anthelmintic treatment on the MEDLINE **DUPLICATE 23** 

CORPORATE SOURCE: Institute of Biomedicine, Central University of Alvarez N Lynch N R; Hagel I; Perez M; Di Prisco M C; Lopez R;

SOURCE: Venezuela, Caracas...
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY.

Sep) 92 (3) 404-11.

Journal code: H53. ISSN: 0091-6749
PUB. COUNTRY: United States

NIGUAGE: LE SEGMENT: ENTRY MONTH: Journal; Article; (JOURNAL ARTICLE) English

NB It is well known that helminthic infection can cause a polyclonal Abridged Index Medicus Journals; Priority Journals

stimulation of the synthesis of IgE, which is dependent on interleukin-4 (IL-4) production, and it has been suggested that this can modulate the expression of allergic reactivity in tropical populations. We evaluated the effect of regular anthelmintic treatment, for a period of 22 months, on certain aspects of the allergic reactivity of children in a slum the socioeconomic conditions of Venezuela over the course of our In a group of children who were also evaluated in the same slum, but area of Caracas, Venezuela, where helminths are endemic. The treatment (Oxantel-Pyrantel; Quantrel) effectively eliminated study period. This was paralleled by a considerable increase in infection occurred, which was related to an acute deterioration of who declined treatment, a substantial increase in helminthic specific IgE antibody against environmental immediate-hypersensitivity skin-test reactivity and serum levels of IL-4 was also observed after treatment in contrast, both the detectable in the serum, and a significant reduction in decrease in the initially elevated total serum IgE levels. IL-4 was intestinal helminthic infection and resulted in a significant allergens were markedly increased in the treated children.

> reactivity is reversible by anthelmintic treatment. synthesis. This inhibition of allergic saturation and suppression of specific IgE antibody mast cell Fc epsilon receptor stimulation of IgE synthesis by helminthic parasites results in IgE antibody levels indicated that the polyclonal Prausnitz-Kustner passive transfer tests and analysis of specific total Ig€ levels in these children and a decrease in the skin-test reactivities and specific IgE levels. The application of

ACCESSION NUMBER: 1993;383611 BIOSIS DOCUMENT NUMBER: PREV199396058911 populations. different socioeconomic levels in tropical Allergic reactivity of children of 1993:383611 BIOSIS

L13 ANSWER 44 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS

Lopez, Reina I.; Garcia, Nancy M. Hagel, Isabel; Lynch, Neil R.; Diprisco, Maria C.;

SOURCE: CORPORATE SOURCE: Instituto Biomedicina, Aptdo 4043, Caracas International Archives of Allergy and Immunology,

(1993) Vol. 101, No. 2, pp. 209-214. ISSN: 1018-2438.

LANGUAGE: DOCUMENT TYPE: English Article

AB Widely variable prevalences of allergic diseases have been the population of tropical Venezuela (lat 2-12 degree N), and in the present study analyze the overall results obtained in the laboratory evaluation of children (5-15 years of agb) belonging to these groups. Children of medium-high socioeconomic level (M-HSEL), who experience occasional helminthic infections, have moderately epsilon receptor saturation detectable specific IgE antibody against a variety of inhalant allergens, but relatively few have high levels, infection, and have highly elevated total serum IgE levels. In contrast to the M-HSEL, the majority of these children have allergens. Persons of low socioeconomic level, in the urban, and particularly rural situation experience frequent helminthic allergen and mast cell Fcdiminished specific antibody production against any given the widely polyclonal stimulation that they cause, resulting in both allergens, and frequent infections are suppressive due to nonspecific potentiation of IgE synthesis against environmental reactivity; occasional infections are stimulatory, via their tests of passive sensitization. We propose, therefore, that parasitized persons, evidence of saturation of mast and their skin test positivity is also low. In these frequently positivities and specific IgE levels against environmental high total serum IgE levels, and have elevated skin test these areas. Since 1980, we have been evaluating the reported in tropical populations, and this has been suggested to be due to effects of the nonspecific polyclonal stimulation of IgE nelminthic parasites have a biphasic effect on allergic cell Fc-epsilon receptors was found by allergic reactivity of different socioeconomic sectors of synthesis caused by the helminthic infections that are endemic in

CORPORATE SOURCE: Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD 21224.
CONTRACT NUMBER: AI07290 (NIAID) L13 ANSWER 45 OF 76 MEDLINE ACCESSION NUMBER: 92291514
DOCUMENT NUMBER: 92291514 IgE receptors. Hamilton R G release by acting on IgG-IgE complexes bound to Anti-human IgG causes basophil histamine Lichtenstein L M; Kagey-Sobotka A; White J M; JOURNAL OF IMMUNOLOGY, (1992 Jun 15) 148 (12) MEDLINE

Journal code: IFB. ISSN: 0022-1767
PUB. COUNTRY: United States Journal; Article; (JOURNAL ARTICLE)

3929-36

FILE SEGMENT: ENTRY MONTH: nonatopic donor's basophils released histamine after of purified murine mAbs with International Union of Immunological to induce histamine release from human basophils. A panel stimulation with optimal amounts of anti-IgG mAb. The the basophils of 75% (18/24) released greater than 10% human IgG was used. Of the 24 allergic subjects studied, We have reexamined the ability of anti-human IgG antibodies Cancer Journals 199209 Abridged Index Medicus Journals; Priority Journals;

cells were those to which the serum donor was responsive. Sera from non-IgG responders could not restore an anti-IgG response. These data led to the hypothesis that the IgG specific mAb were binding to could passively sensitize acid-treated leukocytes from both anti-IgG responder and nonresponder donors for an anti-IgG response. The only anti-IgG mAb that induced release from these passively sensitized the IgE receptors on basophils. be blocked by previous exposure of the basophils to IgE. through IgE bound to the IgE receptor. This was IgE myeloma nor IgG myeloma (up to 15 mg/ml) proteins could restore the response to anti-IgG mAb. However, sera from individuals with leukocytes that released histamine upon challenge with anti-IgG mAb anti-IgG induced histamine release was not caused by cross-reactivity with IgE. Ig receptors were opened by lactic acid treatment so that the cells could be passively sensitized. Neither induction of histamine release was anti-IgG3 greater than anti-IgG2 greater than IgG1 greater than anti-IgG4. As in our previous study using polycional anti-IgG, 100- to 300-micrograms/ml quantities of binding to IgG anti-IgE antibodles and cross-linking of We conclude that anti-IgG-induced release occurs as a result of shown to be correct because passive sensitization to anti-IgG could lgG-lgE complexes that were attached to the basophⅡ the anti-IgG mAb were required for maximal histamine release, about 1000-fold higher than those for comparable release with anti-human 10/18 anti-IgG responder cells released histamine with mAb specific for two or more different subclass specificities. The rank order for inhibition studies with IgE myeloma protein indicated that to anti-IgE challenge, as did 92% (22/24) of the atopic donor cells gE. Specificity studies using both immunoassays and basophils of 85% (11/13) of the nonatopic donors did respond histamine to one or more anti-lgG1-4 mAb, whereas none of the 13 Histamine release was induced most frequently by anti-IgG3, and Societies-documented specificity for each of the four subclasses of

L13 ANSWER 46 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 92337064 EMBASE lgE-mediated allergy and Fc.

CORPORATE SOURCE: Department of Medicine III, Osaka University Medical epsilon, receptor II. School, 1-1-50 Fukushima, Fukushima-ku, Osaka City Suemura M.

SOURCE 553, Japan JPN. J. THORAC. DIS., (1992) 30/8 (1427-1433). ISSN: 0301-1542 CODEN: NKYZA2

FILE SEGMENT: COUNTRY: DOCUMENT TYPE: Tuberculosis Japan 915 Journal Chest Diseases, Thoracic Surgery and

LANGUAGE: Japanese SUMMARY LANGUAGE: Japanese; English AB Two types of IgE receptors, Fc. epsilon.RII is expressed on various cells such as mature .mu.+.delta.+ B cells and activated monocytes and eosinophils. The and cDNAs encoding these chains were recently cloned. Fc. epsilon.Rl consists of .alpha., .beta. and .gamma. chains release of chemical mediators from these cells. Fc. and cross-linkage of Fc.epsilon.Rl leads to the expressed on mast cells and basophils, epsilon. receptor I (Fc.epsilon.RI) and Fc.epsilon.RII), are known to be involved in cDNA encoding B cell Fc.epsilon.Rll was cloned IgE-mediated allergy. Fc.epsllon.Rl is 9 026 Clinical Biochemistry Immunology, Serology and Transplantation

the N-terminal cytoplasmic region but share the same C-terminal extracellular region. These two receptors are generated utilizing epsilon.Rll, Fc.epsilon.Rlla and Fc.epsilon.llb, whose structures differ only at by several groups including ours, and Fc.epsilon may function in various phases of IgE-mediated allergic IgE responses. Thus, sFc.epsilon.RII of different molecular sizes sFc.epsilon.Rll (33kDa) exerted an enhancing effect on IL-4-induced Fc.epsllon.Rl. On the other hand, purified from cells expressing Fc.epsilon.Rll or gE-binding as well as IgE-mediated release of chemical mediators sFc.epsilon.Rll (25kDa). It showed an InhIbitory effect on sFc.epsilon.Rll in allergy, we prepared recombinant allergic disease. Then, in order to analyze the functions of sFc.epsilon.Rll level in serum may be a good indicator of in parallel with clinical improvement, suggesting that drug treatment or reduction of airborne allergens courses. It was found that serum sFc.epsilon.Rll decreased following in various altergic diseases, following the clinical responses, sFc.epsilon.RII level in the serum may reflect the in vivo activities of these lymphokines. This possibility was assessed Since sFc.epsilon.Rll secretion is regulated by IL-4 and IFNs, which epsilon.Rll (sFc.epsilon.Rll) with MW of 37, 33 and 25kDa. proteolysis, and released from cells as soluble Fc. Fc.epsilon.Ril is cleaved as a result of gE-dependent phagocytosis. The C-terminal extracellular region of whereas Fc.epsllon.Rilb functions in epsilon.Rlla is involved in IgE-mediated endocytosis epsilon.Rllb, it was demonstrated that Fc. expressing Fc.epsilon.Rlla or Fc. cells, monocytes and eosinophils. By employing transformants While Fc.epsIlon.Rilb is inducible by IL-4 on B epsilon.Rita is constitutively expressed only on B cells. different transcriptional initiation sites and 5' exons. Fc Subsequently, we identified two species of Fc. N-terminal inside the cells, homologous to C-type animal lectins. RII was found to be a single chain receptor expressed with its are also responsible for the regulation of IgE antibody

AUTHOR: ACCESSION NUMBER: 92235616
DOCUMENT NUMBER: 92235616 L13 ANSWER 47 OF 76 MEDLINE ACCESSION NUMBER: 92235616 Fodinger D, Kinet J P; Stingl G

CORPORATE SOURCE: Department of Dermatology I, University of Vienna DURCE: Medical School, Austria... bind monomeric IgE via Fc epsilon Epidermal Langerhans cells from normal human skin Wang B; Rieger A; Kilgus O; Ochiai K; Maurer D; JOURNAL OF EXPERIMENTAL MEDICINE, (1992 May 1) MEDLINE

Journal code: I2V. ISSN: 0022-1007.
PUB. COUNTRY: United States ENTRY MONTH FILE SEGMENT: LANGUAGE: Journal; Article; (JOURNAL ARTICLE) English Priority Journals; Cancer Journals 199207

mediated by Fc epsilon RI rather than by CD23 to Fc epsilon Ri alpha gamma transfectants. abrogated by preincubation with the anti-Fc epsllon RI alpha mAb 15-1, which interferes with IgE binding nor by the addition of lactose. However, binding could be entirely either Fc epsilon RII/CD23 or Fc gamma RII/CD32, tissue with monoclonal antibodles (mAb) against binding to LC could neither be prevented by preincubation of the skin of healthy individuals can specifically bind monomeric IgE. IgE studying the mechanism(s) underlying this phenomenon, immunohistology revealed that a majority of epidermal LC from normal These observations indicated that IgE binding to epidermal LC is disease states associated with hyperimmunoglobulinemia E. When Human epidermat Langerhans cells (LC) bearing IgE are found in

> RII/CD23 mAbs; and (b) transcripts for the alpha, beta, and gamma chains of Fc epsilon RI could be amplified by reactions, the demonstration of this receptor on epidermal LC may have important implications for our understanding of polymerase chain reaction from RNA preparations of LC-enriched, but not of LC-depleted, epidermal cell suspensions. In view of the assumption gained support from our additional findings that: (a) the majority of LC exhibited distinct surface immunolabeling with the allergic reactions after epicutaneous contact with the synthesis and release of mediators of allergic mast cells and basophlls in triggering preeminent role of Fc epsilon RI crosslinking on not with any of eight different anti-Fc epsilon anti-Fc epsilon RI alpha mAbs 15-1 and 19-1, but CD32, or the D-galactose-specific IgE-binding protein. This

> > ENTRY MONTH:

AUTHOR(S): ACCESSION NUMBER: 1993:4974 BIOSIS DOCUMENT NUMBER: PREV199395004974 ne. Phosphatidylcholine-specific phospholipase D-derived 1,2-diacylglycerol does not initiate protein kinase C activation in the RBL 2H3 mast-cell Lin, Peiyuan; Fung, Wen-Jian C.; Giffillan, Alasdair

L13 ANSWER 48 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS

CORPORATE SOURCE: (1) Dep. Pharmacol., Hoffmann-La Roche, Nutley,

SOURCE: 07110 USA 325-331 SSN: 0264-6021 Biochemical Journal, (1992) Vol. 287, No. 1, pp

DOCUMENT TYPE: Artica Article

anti-trinitrophenol (TNP) IgE (0.5 mu-g/m)) and were then triggered with an optimal concentration (10 ng/m)) of TNP-ovalburnin conjugate (TNP-OVA). This resulted in an immediate biphasic increase in production of 1.2-diacyglybearol (DAG) and activation of PKC. The initial increase in DAG production reached a peak within 30 s, and the second phase reached a plateau within 5 min after stimulation. We examined the role of phosphatidylcholine-specific phospholipase D (PC-PLD) in the IgE-dependent activation of protein kinase C (PKC) in RBL 2H3 cells (a model for mast-cell DAG formation in response to IgE-receptor cross-bridging, but coincided with the second peak. Phosphatidic cross-bridging, but coincided with the second peak. Phosphatidic acid (PA), derived from the PC-PLD pathway, is metabolized to DAG by the action of PA phosphohydrolase (PAPase). Propranolol (0.3 mM), Inhibitor staurosporine (0.1 mu-M) inhibited the second, but not first, peak of DAG accumulation, reversed PKC in DAG, activation of PKC, and subsequently degranulation. The PKC from RBL 2H3 cells. PC-PLD does not initiate, but may play a latent role in, igE-dependent DAG production, PKC activation and mediator release mediator release. Taken together, these results demonstrate that translocation after 10 min and inhibited subsequent which inhibits PAPase, blocked the IgE-dependent increase TNP-OVA-induced PC-PLD activation followed the initial increase in function). Cells were sensitized with mouse monoclonal

CORPORATE SOURCE: Institute for Biophysics, University of Linz, DOCUMENT NUMBER: 92037520 ACCESSION NUMBER: 92037520 ACCESSION NUMBER: cells. in degranulation of rat mucosal mast Immunologically activated chloride channels involved Romanin C; Reinsprecht M; Pecht I; Schindler H WEDLINE **DUPLICATE 25** 

Journal code: EMB, ISSN: 0261-4189.
PUB. COUNTRY: ENGLAND: 17-42-175 FILE SEGMENT: Journal; Article; (JOURNAL ARTICLE) Austria.. EMBO JOURNAL, (1991 Dec) 10 (12) 3603-8. English Priority Journals

> secretion from RBL cells upon intracellular application, also blocks CI- channels (IC50 = 15 microM) when applied to the cytoplasmic side of an inside-out membrane patch. The observed CI- channel activation Activation of apparently the same CI- channels could be mimicked without stimulation by isolating inside-out membrane patches in tyrode solution. Parallel Inhibition of both CI- channel occurred slowly, within minutes after stimulation. The channel has a slope conductance of 32 pS at potentials between 0 and -100 mV, and an increasing open-state probability with increasing depolarization. or mast cells initiates a cascade of processes Fc epsilon RI) on the surface of basophils antigen-induced CI- current and the serotonin release, where half-maximal inhibition occurred at similar doses, at 52 was observed by two compounds, the CI- channel blocker 5-nitro-2-(3-phenylpropylamino) benzoic acid (NPPB) and the antiactivity and mediator secretion, as monitored by serotonin release, as detected by the patch-clamp technique. Channel activation epsilon RI, resulted in the activation of CI- ion channels monoclonal antibody specific for the Fc RBL-2H3). Stimulation of RBL cells by either IgE and antigen or by a correlation between mediator secretion and the activation of CIleading to the secretion of inflammatory mediators. We report here a mast cells studied. role for this CI- channel in mediator secretion from the of channel current and of serotonin release suggests a functional upon immunological stimulation and the parallel inhibition microM and 77 microM, respectively. The drug cromolyn, recently found to Inhibit immunologically induced mediator allergic drug cromolyn. NPPB inhibited both the channels in rat mucosal-type mast cells (line Crosslinking of type I Fc epsilon receptors (

release from rat basophilic leukemia cells (RBL-2H3).

AUTHOR: Tanaka Y, Takagaki Y, Nishimune T

CORPORATE SOURCE: Osaka Prefectural Institute of Public Health, Japan.

SOURCE: CHEMICAL AND PHARMACEUTICAL BULLETIN, (1991 Aug) DOCUMENT NUMBER: L13 ANSWER 50 OF 76 MEDLINE ACCESSION NUMBER: 92183237 Effects of metal elements on beta-hexosaminidase 92183237 MEDLINE **DUPLICATE 26** 

Journal code: CZP, ISSN: 0009-2363.
PUB. COUNTRY: Japan ENTRY MONTH: LANGUAGE eleased from basophile and mast cells via cell Immediate allergy is caused by a chemical mediator Journal; Article; (JOURNAL ARTICLE) (8) 2072-6. English 199206

degranulation due to reaction between an immunoglobulin E (IgE)

inhibitory nor promoting action, such as MnCl2 and SrCl2, and 5) AgNO3, which alone showed promoting action. the cell membrane, and an antigen. The present authors have established a new method for assaying the enzyme activity of beta-hexosaminidase as an index of chemical mediator release. Using action, such as CoCl2 and Pb(NO3)2, 4) those which showed neither and CuCl2, 3) those which showed relatively weak Inhibitory assay system. A total of 38 metal elements were investigated for allergic reaction were evaluated using a newly developed well-established cell line of rat basophilic leukemia cells (RBL-2H3). The effects of metal elements on immediate cultured cells instead of conventional methods based on histamine showed relatively strong inhibitory action, such as CdCl2 Inhibitory action, such as ZnCl2 and ZrCl4, 2) those which elements were classified by five types on the basis of action on effects on immediate allergic reactions in vitro. These permits highly accurate mass screening since it uses a release from mast cells, the present method antibody, bound with the IgE receptor on eta-hexosanimidase release: 1) those which showed very strong

L13 ANSWER 51 OF 76 MEDLINE ACCESSION NUMBER: 91184268 MEDLINE

FILE SEGMENT: PUB. COUNTRY: SOURCE: serum IgE in epsilon heavy chain transgenic mice.

AUTHOR: Adamczewski M; Kohler G; Lamers M C
CORPORATE SOURCE: Max-Planck-Institut fur Immunbiologie, Freiburg. TITLE DOCUMENT NUMBER: 91184268 LANGUAGE: 09/090,375 ovalburnin-immunized transgenic mice only during the initial phases of the immune response. This result has a bearing on the feasibility of immune therapy of allergic diseases with substances that block binding of IgE to its receptors. antigen-specific IgE, IgG1 and IgM responses as well as the increase in endogenous IgE after Nippostrongylus intestation in transgenic mice were normal. These data indicate that the presence of high levels of transgenic IgE did not induce class-specific suppressive antibody. These mice produce the secreted form of the recombinant epsilon heavy chain. Serum IgE levels were increased at recombinant epsilon heavy chain. Serum IgE levels were increased at least 100-fold over control values. Transgenic epsilon mRNA was detected in spleen and thymus, not in liver and heart. Transgenic epsilon production in vitro was slightly up-regulated by I cells, but not affected by interleukin 4 in vitro on Nipostrongylus infestation in vivo. The B cell and I cell compartments and inhibited an ovalbumin-specific skin reaction in in vitro and an altergic skin reaction in vivo. It mechanisms. Transgenic IgE bound to Fc epsilon receptor type I and Fc epsilon receptor type II and mediated histamine release from mast cells We have generated and examined transgenic mice carrying a rearranged immunoglobulin transgene coding for the heavy chain of an IgE Journal; Article; (JOURNAL ARTICLE) Journal code: EN5. ISSN: 0014-2980. TRY: GERMANY: Germany, Federal Republic of 617-26 Expression and biological effects of high levels of EUROPEAN JOURNAL OF IMMUNOLOGY, (1991 Mar) 21 (3) 199107 Priority Journals; Cancer Journals

L13 ANSWER 52 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS
ACCESSION NUMBER: 1992:91401 BIOSIS
DOCUMENT NUMBER: BASS:47951
TITLE: EFFECTS OF FOOD ADDITIVES ON BETA HEXOSAMINIDASE
RELEASE FROM RAT BASOPHILIC LEUKEMIA CELLS RBL-2H3.
AUTHOR(S): TANAKA Y; TAKAGAKI Y; NISHIMUNE T NAKAMICHI ORATE SOURCE: OSAKA PREFECTURA INST. PUBLIC HEALTH, 3-69

FILE SEGMENT: SOURCE 1-CHOME, HIGASHINARI-KU, OSAKA 537, JPN. EISEI KAGAKU, (1991) 37 (5), 370-378. CODEN: ESKGAZ, ISSN: 0013-273X.

BA; OLD

cells via a cell degranulation due to a reaction between an IgE antibody, bound with the IgE mediator released from basophil and mast An immediate allergic response is caused by a chemical

Effects of food additives on the immediate allergic reaction were evaluated using a newly developed assay system. A present study permits highly accurate mass screening, since it uses a well-established cell line of rat basophilic leukemia cells (RBL-2H3), and determines by colorimetry the enzyme activity of receptor on the cell membrane, and an antigen. Using cultured cells instead of conventional methods based on histamine sulfates inhibited allergic reaction; butylated thiabendazole, ethyl and propyl p-hydroxybenzoates and aluminium sulfate, eugenol, cinnamaldehyde, ammonium persulfate additives showed no action, zinc sulfate, zinc gluconate, copper total of 100 food additives were investigated for their effects on release from mast cells, the assay method in the beta.-hexosaminidase release from RBL-2H3 cells. Most of the beta, hexosaminidase as an index of chemical mediator release.

L13 ANSWER 53 OF 76 MEDLINE ACCESSION NUMBER: 92170644

hydroxy toluene and butylated hydroxy anisol promoted reaction and

was attributed to their action of injurying the cells.

AUTHOR: Koda A; Yanagihara Y; Matsuura N
CORPORATE SOURCE: Department of Pharmacology, Gifu Pharmaceutical ₽ FILE SEGMENT: LANGUAGE: PUB. COUNTRY: formation was also inhibited by this agent. The total IgE in sera of atopic patients including asthma and atopic dermatitis showed a tendency to decrease when IPD-1151T was given p.o. for 6 to by autologous B cell concomitant with the TCL and antigen presenting cell. The consideration was done on the mechanism regarding the inhibition of IgE antibody formation by IPD-1151T. blood lymphocytes of an allergic patient sensitive to Japanese cedar pollen was reduced with the addition of IPD-1151T. This agent also decreased antigen-induced IgE synthesis low-affinity Fc receptor for IgE (Fc epsilon RII) also decreased. Antigen-induced production of interleukin 4 (IL-4) from a helper T-cell line (TCL) prepared from peripheral formations of anti-DNP IgM and IgG antibodies, however, were unaffected in this case. Ongoing IgE antibody paper describes the inhibitory effect of IPD-1151T on the IgE antibody formation. The IgE antibody only antigen-induced histamine release from mast cells but also IgE antibody formation. The present iPD-1151T [(+/-)-[2-[4-(3-ethoxy-2-hydroxypropoxy)phenylcarbamoyll-ethyl dimethylsulfonium p-toluenesulfonate] inhibits not against Dermatophagoides pteronyssinus or D. farinae clearly decreased. In these cases, the ratio of B cell expressing 12 weeks, though the titer of specific IgE antibody dinitrophenylated ascaris extract (DNP.As) plus alum was Inhibited dose-dependently by IPD-1151T given p.o. The formation in BALB/c mice which had been immunized with University, Japan..
AGENTS AND ACTIONS. SUPPLEMENTS, (1991) 34 369-78. Journal code: 2YH, ISSN: 0379-0363. Journal; Article; (JOURNAL ARTICLE) Switzerland Priority Journals

L13 ANSWER 54 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 91331086 EMBASE

TITLE: Pharmacological modulation of the antigen-induced

expression of the low-affinity IgE

AUTHOR: receptor (Fc epsilon Mencia-Huerta J.M.; Dugas B.; Boichot E.; Petit-Frere C.; Paul-Eugene N. Lagente V.; Capron M.; Liu F.-T.; .RII/CD23) on rat alveolar macrophages

CORPORATE SOURCE: Departement d'Immunologie, Institut Henri Beaufour,

SOURCE Avenue des Tropiques, F-9 1952 Les Ulis, France INT. ARCH. ALLERGY APPL. IMMUNOL., (1991) 94/1-4 ISSN: 0020-5915 CODEN: IAAAAM (295-298).

Clinical Biochemistry Pharmacology 026 Immunology, Serology and Transplantation

FILE SEGMENT: DOCUMENT TYPE: COUNTRY:

Switzerland

Journal

AB Brown-Norway (BN) rats were sensitized by 3 aerosol exposures to ovalburnin (OA: 10 mg/ml) at days 1, 3 and 14. At day 21, the rats were challenged with the antigen or vehicle by aerosol. Alveolar macrophages (AN) were obtained by bronchoalveolar lavage and the expression of Fc. epsilon RII/CD23 was assessed LANGUAGE: Englis SUMMARY LANGUAGE: 24 h after OA exposure, compared to 12% of the cells from rats exposed to vehicle. Sprague-Dawley rats were passively sensitized by intravenous injection of 0.1 or 0.05 ml/kg mouse ascitic fluid challenged BN rats expressed FC.epsilon.RII/CD23 antibody. A maximum of 74% of the AM from sensitized and by flow cytometry after staining with the BB10 monoclonal Drug Literature Index English English

> with ketotifen or beclomethasone. In addition, oral or aerosol administration of respectively BN 50730 or BN 52021 (two either histamine, serotonin or acetylcholine by aerosol. The .RII/CD23 on 75% AM, compared to 17% AM from saline-challenged rats. Such an induction of Fc.epsilon.RII/CD23 on AM antigen-induced expression of Fc.epsllon exposure induced the expression of Fc.epsilon DNP-bovine serum albumin for 30 min. In this case also, antigen containing dinitrophenyl (DNP)-specific monoclonal IgE .RII/CD23 on AM was Inhibited upon treatment of the rats was, however, not observed when the animals were challenged with (2682-1) and after 24 h exposed to an aerosol of 5 mg/ml of

DOCUMENT NUMBER: 92170644

synthesis modulation

IPD-1151T: a prototype drug for IgE antibody

**HILL** L13 ANSWER 55 OF 76 MEDLINE ACCESSION NUMBER: 91114691 DOCUMENT NUMBER: 91114691 Mapping of the high affinity Fc

lipid mediator in this process

inhibited the antigen-induced Fc.epsilon

RII/CD23 expression on AM, indicating the participation of this

structurally unrelated platelet-activating factor antagonists),

constant region domain of IgE.

AUTHOR: Nissim A; Jouvin M H; Eshhar Z

CORPORATE SOURCE: Department of Chemical Immunology, Weizmann epsilon receptor binding site to the third

ENTRY MONTH: FILE SEGMENT: LANGUAGE: PUB. COUNTRY: SOURCE: Institute AB Identification of the precise region(s) on the IgE molecule that of Science, Rehovot, Israel. EMBO JOURNAL, (19 Journal; Article; (JOURNAL ARTICLE) Journal code: EMB. ISSN: 0261-4189 English 199105 Priority Journals ENGLAND: United Kingdom (1991 Jan) 10 (1) 101-7.

chimeric IgE molecules which contain the murine C epsilon 3, bound epsilon RI. Employing exon shuffling, we have expressed chimetic epsilon-heavy chain genes composed of a mouse (4-hydroxy-3-riftropheny)Jasettic acid (MP)-binding VH domain, and human C epsilon in which various domains were replaced by their the rodent receptor, the ability to bind to the rat Fc analogues able to block the allergic response. To localize take part in the binding of IgE to its high affinity receptor (Fc epsilon RI) may lead to the design of IgE results assign the third epsilon domain of IgE as the principal region involved in the interaction with the Fc not impair either the binding capacity of the mutated IgE or its epsilon Ri-binding of each mouse IgE domain while murine counterparts. This has enabled us to test the Fc the Fc epsilon RI-binding domain of mouse IgE, RI binding site. Deletion of the second constant region domain did which is identical or very close to the Fc epsilon monoclonal antibodies recognizing a site on IgE equally to both the rodent and human receptor, as well as to maintaining the overall conformation of the molecule. All of the we attempted to confer on human IgE, which normally does not bind to ability to mediate mast cell degradation. These

TITLE:

New concepts of IgE regulation.

AUTHOR: Heusser C H; Bews J; Brinkmann V; Delespesse G;

Klichherr E, Ledermann F; Le Gros G; Wagner K

CORPORATE SOURCE: Research Allergy-Immunology, Ciba-Geigy Ltd., L13 ANSWER 56 OF 76 MEDLINE ACCESSION NUMBER: 92040302 DOCUMENT NUMBER: 92040302 Switzerland. MEDLINE

PUB. COUNTRY: INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY, (1991) 94 (1-4) 87-90. Ref. 33

Journal code: GP9, ISSN: 0020-5915.

TRY: Switzerland Journal; Article; (JOURNAL ARTICLE; General Review; (REVIEW)

SOURCE

AB B cell switch to IgE expression is mediated by It.-4 and is regarded as a Thelper cell-related phenomenon. In this overview we describe which is sustained by further IgE production as well as renewal of reaction as long as antigen confrontation is maintained, a process cells can provoke an ongoing local allergic factors, IL-3 and GM-CSF. Thus, activation of mast activated mast cells produce their own growth lL-3 which results in IL-4 production by these cells. Furthermore, activated by IgE receptor cross-linking and/or /basophil like cells (from splenic non-B, non-T cells), that IgE switch can also be induced by mast cell

mast cells. It is furthermore demonstrated that in

cells, but not to IgE-sensitized mast cells, and thereby inhibit IgE responses. Non-anaphylactic antibodies blocked the binding of allergen persist in vivo and may represent a pool of potentially lgE-producing cells. Finally, a selective inhibition of the lgE response is described in vitro and in vivo by the use of so-called non-anaphylactic monoclonal anti-lgE certain established immune situations the IgE response may become independent of IL-4, namely in the spontaneous in vitro IgE expression of cells from atopic individuals as well as in an in antibodies. Such antibodies bind to surface IgE+ B vitro antigen-induced secondary IgE response of spleen cells derived from previously immunized mice. Thus, IgE-switched B cells may

consequence they do not induce but rather prevent allergen (ABSTRACT TRUNCATED AT 250 WORDS) with the Fc epsilon on these cells. As a -specific IgE to mast cells by competing induced mediator release by mast cells

L13 ANSWER 57 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS ACCESSION NUMBER: 1990:513097 BIOSIS DOCUMENT NUMBER: BA90:130373 AUTHOR(S): DISEASES. IGG ANTI-IGE AND LYMPHOKINES IN ALLERGIC STADLER B M; GANG Q; VASSELLA C; LOIDOLT D;

E; VOGEL M; DE WECK A L
CORPORATE SOURCE: INSELSPITAL, CH-3010 BERN, SWITZ.
SOURCE: ALLERGOLOGIE, (1990) 13 (9), 322-324.
CODEN: ALLERGOLOGIE, (1990) 13 (9), 322-324.
FILE SEGMENT: BA; OLD

AB Cytokines seem to play an important immunoregulatory role also for the regulation of IgE synthesis. However, these mediators do not explain the genitical predisposition as well as the antigen specificity of the allergic reaction. We propose a model LANGUAGE: which claims that naturally occurring anti-IgE autoantibodies may be responsible for the specific part of the immunoregulation in allergic disease. Despite the limited availability of German

information on anti-IgE autoantibodies and their in vivo role, many of the biological in vitro functions of autoantibodies suggest such a role. Anti-IgE autoantibodies are either anaphylactogenic or may mast cells, depending on their epitope Inhibit the binding of IgE to basophils or

form immune complexes in vivo and prevent therapy the precise determination of IgE. Preliminary clinical studies have also shown that auto-anti-IgE antibodies may play a contrast remove it from the cell surface. Anti-IgE autoantibodies bind more IgE to the low IgE receptor, or in pecificity. Similarly we found that anti-IgE autoantibodies may

hyposensitization, while low anti-IgE levels correlated with a successful hyposensitization. Furthermore, high levels of anti-IgE autoantibodies were associated with stronger and more frequent late autoantibodies in patients non-successfully treated by pathophysiological role. We found high levels of anti-IgE

L13 ANSWER 59 OF 76 MEDLINE ACCESSION NUMBER: 90083288 DOCUMENT NUMBER: 90083288

MEDLINE

**DUPLICATE 30** 

mast cells and basophil

Blocking of passive sensitization of human

granulocytes with IgE antibodies by a

recombinant human epsiton-chain fragment of 76 amino

L13 ANSWER 58 OF 76 MEDLINE

AUTHOR:

Helm B; Kebo D; Vercetti D; Glovsky M M; Gould H; Ishizaka K; Geha R; Ishizaka T

SOURCE: 94 AB IgE binds to two types of Fc receptors, called Fc ENTRY MONTH: PUB. COUNTRY: AUTHOR: Spiegelberg H L
CORPORATE SOURCE: Department of Immunology, Research Institute of CORPORATE SOURCE: Department of Immunology, Research Institute of CONTRACT NUMBER: AI-10734 (NIAID)
AI-10386 (NIAID) ACCESSION NUMBER: 90278152 DOCUMENT NUMBER: 90278152 FILE SEGMENT: IFN-gamma/L-2 production is presently unknown. E2, or beta-glucuronidase after incubation with aggregated IgE than normal monocytes. Furthermore, aggregated IgG1 is much more efficient than IgE in inducing mediator release from M phi and IgG1 on M phi, eosinophils, and platelets mediate cytotoxicity to schistosomules, enhance phagocytosis, and induce the release of granule enzymes. However, M phi from patients with atopic dermatitis expressing significantly more Fc epsilon R2 than M phi from normals do not release more leukotriene C4, prostaglandin R2 are expressed on resting mu delta + B cells, monocytes/macrophages (M phi), eosinophils, and platelets but rarely on T cells. Interleukin-4 upregulates Fc epsilon Whether the abnormally high IgE antibody production in central role in immediate-type hypersensitivity. It induces human B cells to secrete IgE and IgG4, Ig isotypes typical for Fc epsilon R2 are involved in the pathogenesis of allergic disorders is still lacking. IL-4 appears to play a epsilon R2 on the different cell types are not fully established and are controversial. Fc epsilon R2 atopic patients is the result of overproduction of IL-4 or deficient IL-2 inhibit the IL-4-induced IgG4 and IgE secretion Fc epsilon R2 expression. Interferon-gamma and IL-4 stimulates mast cell growth and upregulates antibodles to helminthic parasites and allergens. antibodies are not known to induce immediate-type hypersensitivity reactions. Therefore, definitive proof that R2 expression on B cells and M phi. The functions of Fc secretion of interleukins 4, 5, and 6. Fc epsilon inflammation such as histamine and leukotrienes and delayed and basophils. Crosslinking of the Fc epsilon R1 induces immediate release of mediators of epsilon R1 are expressed on mast cells chain which shows homology to animal lectin receptors. Fc member of the immunoglobulin supergene family. The Fc composed of four polypeptide chains, one alpha, one beta, and two gamma chains. The alpha chain contains the IgE binding site and is a epsilon R2, also called CD23, consists of one polypeptide epsilon R). The Fc epsilon R1 is R) and Fc epsilon R2 (or low-affinity Fc epsilon R1 (or high-affinity Fc epsilon and IgG4 secretion (REVIEW, TUTORIAL) Journal, Article, (JOURNAL ARTICLE) General Review, (REVIEW) (6 Suppl) 49S-52S. Ref: 42 Journal code: IHZ, ISSN: 0022-202X. RRO-5514 Fc receptors for IgE and interleukin-4 induced IgE JOURNAL OF INVESTIGATIVE DERMATOLOGY, (1990 Jun) Priority Journals; Cancer Journals 199009

> CONTRACT NUMBER: AI-10060 (NIAID) CORPORATE SOURCE: Division of Molecular Biology and AI-22058 (NIAID) England Biotechnology/Biochemistry, Sheffield University,

SCIENCES OF THE UNITED STATES OF AMERICA, (1989 Dec) 86 (23) PROCEEDINGS OF THE NATIONAL ACADEMY OF

PUB. COUNTRY: Journal, Article; (JOURNAL ARTICLE) Journal code: PV3. ISSN: 0027-8424 United States

FILE SEGMENT: ENTRY MONTH: LANGUAGE: Priority Journals; Cancer Journals

protein was required for 50% inhibition of Prausnitz-Kusther reactions. When the mononuclear cells of two normal individuals were preincubated with the recombinant peptide or E myeloma protein for 15 min before passive sensitization with the same altergic serum and the cells were challenged with an granulocytes with human IgE antibodies. An injection of the recombinant peptide or E myeloma protein into normal skin sites 1 hr before sensitization with an allergic serum blocked passive sensitization. In this system, approximately 10-fold higher molar concentration of the recombinant peptide than E myeloma cells and in vitro sensitization of human basophil junction of constant regions 2 and 3 of the human IgE epsilon chain blocked the in vivo passive sensitization of human skin mast The recombinant peptide corresponding to residues 301-376 at the

histamine release. Further studies with several recombinant peptides indicated that amino acid resides 363-376 in the Fc peptide to Fc epsilon-chain receptor I. epsilon-chain fragment are not essential for binding of the optimal concentration of an antigen, approximately 11- to 13-fold higher concentration of the recombinant peptide than E myeloma protein was required for 50% Inhibition of antigen-induced

M; Lichtenstein L M; MacGlashan D W Jr
CORPORATE SOURCE: Johns Hopkins University School of Medicine,
Department of Medicine, Baltimore, MD 21239.
CONTRACT NUMBER: AI 20136 (NIAID)
AR 31891 (NIAMS) III E AUTHOR: ACCESSION NUMBER: 89309818
DOCUMENT NUMBER: 89309818 antiinflammatory steroids. release by cytokines. I. Interaction with Regulation of human basophil mediator Schleimer R P; Derse C P; Friedman B; Gillis S; Plaut MEDLINE

L13 ANSWER 60 OF 76 MEDLINE

**DUPLICATE 31** 

SOURCE JOURNAL OF IMMUNOLOGY, (1989 Aug 15) 143 (4) 1310-7.

PUB. COUNTRY: United States

AI 20256 (NIAID)

ENTRY MONTH: FILE SEGMENT: LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
English Cancer Journals Abridged Index Medicus Journals; Priority Journals;

AB We have analyzed the effects of overnight culture of human elease is a result of an intrinsic increase in the releasability pasophils, suggesting that the enhancement of histamine unoccupied Fc epsilon Rt on human control. IFN-gamma did not increase the number of occupied or basophil histamine release was approximately 200% of 50 to 50,000 U/ml and maximal enhancement of anti-IgE-induced release. IFN-gamma enhanced postculture releasability of human basophils. The concentration range for this effect was from the Inhibitory effects of dexamethasone on histamine cytokines (granulocyte-macrophage-CSF, TNF-alpha, IL-1, IL-2, and IL-4) had no effect either on anti-IgE-induced histamine release or basophils with a range of concentrations of several basophils with a variety of cytokines in the presence or absence of the glucocorticoid dexamethasone. The 24-h culture of 198910

indirectly by effects on cells which produce cytokines, such as glucocorticoids on human basophils may be in part mediated basophils. Finally, we conclude that the effects of effects of elevated systemic glucocorticoids on human for increased releasability and override Inhibitory increased local production of IL-3 may "prime" basophils basophils in allergic reactions. Furthermore, effect. IL-3 contamination may explain the ability of these completely blocked. None of the other cytokines tested, with the exception of crude or partially purified IL-2 preparations, had this suggest that IFN-gamma and IL-3 may modulate the response of human abolished by a specific anti-IL-3 antibody. These results inhibitory effects of dexamethasone, because this effect was partially purified "IL-2" preparations to block the Inhibition of basophil mediator release was effects of dexamethasone; at 1,000 U/ml IL-3, dexamethasone presence of IL-3 were insensitive to the inhibitory increase in releasability. Basophils cultured in the both histamine and sulfidopeptide leukotriene, suggesting a global IL-3 occurred for both IgE-dependent (anti-IgE) and peptide-mediated (fmet-leu-phe) responses and included elevations in the release of in the former. Enhanced postculture releasability after exposure to increase in post culture releasability occurred in both partially (approximately 1% basophils) although it was more marked purified basophils (12 to 90% purity) and mixed leukocytes alterations in basophil cell surface IgE density. The mechanism. rll-3 also augmented basophil releasability (approximately 250% of control) by a mechanism independent of

FILE SEGMENT: ENTRY MONTH: PUB. COUNTRY: SOURCE: ACCESSION NUMBER: 90087460 MEDLINE DOCUMENT NUMBER: 90087460 AB Although asthma is a complex and multifactorial disease, a LANGUAGE CORPORATE SOURCE: Department of Pediatrics, Stanford University Medical L13 ANSWER 61 OF 78 MEDLINE exposure and conventional high-dose allergen injection This recognition has not led to a widespread immunologic orientation to asthma diagnosis and treatment. This review summarizes older immunotherapy, both of which have well-documented efficacy when allergen avoidance measures that reduce natural immunomodulatory approaches to treatment. At present these include mast cells and possibly other proinflammatory cell etiology of asthma has arisen from recent studies linking (1) IgE studies utilizing in vitro testing to study new subject groups, to demonstrate that in certain situations up to 75% to 100% of the common aeroallergens and asthma has been recognized for decades atiology of asthma in turn gives rise to renewed emphasis upon pronchial hyperreactivity. Understanding of the allergic with persistent local inflammation and increased nonspecific ate-phase reactions; and (3) occurrence of late-phase reactions ypes bearing IgE receptors: (2) IgE-dependent, antibody production with cytophilic sensitization of patient with asthma. A theoretic basis for the allergic aggressive search for allergic factors in virtually any intrinsic and extrinsic asthma should be discarded in favor of an allergic etiology. Thus the old distinctions between cases of chronic asthma, as well as many acute episodes, have an associate lgE-mediated events with asthma, and presents more recent epidemiologic evidence using historical data and skin tests that relationship between atopic allergic sensitization to allergen-induced immediate bronchial reactions with (REVIEW, TUTORIAL) Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) School, California Ref: 106 Journal code: 4XC, ISSN: 0003-4738 Allergic etiology and immunology of asthma Moss R B ANNALS OF ALLERGY, (1989 Dec) 63 (6 Pt 2) 566-77. Priority Journals United States 199003 **DUPLICATE 32** 

> properly applied in the future, better understanding of the cellular and molecular basis of asthma, in particular the events of the late-phase reaction, are likely to lead to new approaches to treatment based upon rational modulation of these events, possibly antagonists of defined mediator molecules with recombinant cytokine-based therapy or synthetic peptide

DOCUMENT NUMBER: BA86:7945 L13 ANSWER 62 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS ACCESSION NUMBER: 1988:268701 BIOSIS DUPLICATE 33

WITH MONOCLONAL ANTIBODY TO THE INHIBITION OF ALLERGIC REACTIONS

HIGH AFFINITY IGE RECEPTOR.

₽ CORPORATE SOURCE: CLINICAL IMMUNOL. SECT., LAB. MICROBIOL. AUTHOR(S): : KTANI S; KRAFT D; FISCHLER C; MERGENHAGEN S E; SIRAGANIAN R P

SOURCE IMMUNOL., NIDR, NIH, BETHESDA, MD. 20892.
J. IMMUNOL. (1988) 140 (8), 2585-2588.
CODEN: JOIMA3, ISSN: 0022-1767.

FILE SEGMENT: ANGUAGE: BA; OLD

AB A mAb that reacts with the high affinity IgE-R on the rat basophilic before or after IgE. The injection of the mAb Fab i.v. before the injection of the IgE into the skin sites also inhibited cells, the Fab was inactive. The addition of the Fab fragments to RBL-2H3 inhibited the IgE-mediated histamine release leukemia cells (RBL-2H3) was used to InhIbIt allergic reactions. In vitro, the intact mAb BA3 and its Fab reaction. The Fab fragments also inhibited in vivo passive IgE. Whereas the intact mAb released histamine from the RBL-2H3 cells. The mAb binds to the IgE-R with a higher affinity than does fragment inhibited radiolabeled IgE binding to the RBL-2H3 taneous reactions in rats when injected intradermally either English

IFN-gamma and IL-3, that can modulate basophil function.

L13 ANSWER 63 OF 76 MEDLINE Inhibiting immediate hypersensitivity reactions 89016229 MEDLINE DUPLICATE 34

that anti-R antibodles can be used as a model for

reactions, although it was less effective. The results demonstrate

ACCESSION NUMBER: DOCUMENT NUMBER: 89016229

diseases IgE response and its regulation in allergic

AUTHOR: Lee B W; Geha R S; Leung D Y
CORPORATE SOURCE: Children's Hospital, Boston, Massachusetts.
CONTRACT NUMBER: AI-22058 (NIAID)

HL-37260 (NHLBI) AI-20373 (NIAID)

SOURCE 953-67. Ref: 81 PEDIATRIC CLINICS OF NORTH AMERICA, (1988 Oct) 35 (5)

PUB. COUNTRY: Journal code: OUM. ISSN: 0031-3955

Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) (REVIEW, ACADEMIC)

ENTRY MONTH: FILE SEGMENT: ANGUAGE Abridged Index Medicus Journals; Priority Journals

AB The distinguishing feature of the afterglc person is his cells to synthesize IgE requires several stages (see Fig. 2). T cells play an important role in the regulation of IgE synthesis. In "bridging" and the release of histamine and other inflammatory mediators. Fc epsilon R type 2 on lymphocytes or her elevation of serum IgE. This propensity to develop a sustained IgE response is determined genetically. The biologic effects of IgE are mediated via Fc receptors (Fc in the allergic inflammatory reaction. The activation of B and monocytes are upregulated in atopic disease and may play a role (Fc epsilon R type 2). Interaction of vitro activation of resting B cells to synthesize IgE requires allergen with IgE on these cells results in receptor subpopulations of monocytes, macrophages, eosinophils, and platelets basophils (Fc epsilon R type 1) and epsilon R) present on mast cells and

> in the treatment of allergic diseases. us with an understanding of the basis of the human allergic direct cellular interaction with T cells or the presence of IL4 for response and ultimately may provide the basis for novel strategies of IgE synthesis is an important area of investigation. It provides actors, depending on their degree of glycosylation. The regulation (lgE-BF), which may act as lgE-potentiating or lgE-suppressive sotype-specific manner by T-cell-derived IgE binding factors alpha-interferon. Preactivated B cells are influenced in an activation. The latter effect is inhibited by

ACCESSION NUMBER: 1987-291693 BIOSIS
DOCUMENT NUMBER: BA84:21725
TITLE: MONOCLONAL ANTIBODIES SPECIFIC TO L13 ANSWER 64 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS

AUTHOR(S): BANIYASH M; ALKALAT I, ESTRITAN A CORPORATE SOURCE: DEP. CHEMICAL IMMUNOLOGY, WEIZMANN INST. THE ALPHA-SUBUNIT OF THE MAST CELL
'S FC-EPSILON-R-BLOCK IGE BINDING
AND TRIGGER HISTAMINE RELEASE.
BANIYASH M; ALKALAY I; ESHHAR Z

SOURCE: REHOVOT 76100, ISRAEL.
J IMMUNOL, (1987) 138 (9), 29
CODEN: JOIMA3, ISSN: 0022-1767.
MENT: BA; OLD 138 (9), 2999-3004

FILE SEGMENT: ANGUAGE

AB In an attempt to block the interactions between IgE and its receptor on mast cells (Fc.epsilon R), we have established anti-Fc.epsilon.R

F(ab)2 fragments inhibited 125i-igE binding to RBL cell and triggered cell degranulation. The Fab' fragments, on the other hand, could only inhibit igE binding but did not stimulate inhibited RBL and mast cell could specifically bind to RBL and mast cells. epsiton.R mAb were obtained (denoted 4.7 and 5.14) that basophilic leukemia (RBL) cells. Two anti-Fc. cells with mouse splenocytes immunized with imadiated rat monoclonal antibodles (mAb) by fusion of myeloma cell degranulation. Furthermore, these monovalent fragments This binding could be Inhibited by IgE. The mAb and their

a useful reagent for the isolation and characterization of the findings establish the anti-Fc.epsilon.R mAb as (Fab') for blocking the IgE-Fc.epsiton.R Fc.epsilon.R's .alpha.-subunit and the monomeric on the IgE\_receptor. Immunoprecipitation and of IgE, nevertheless, mAb 4.7 and 5.14 recognized different epitopes mAb 4.7 and 5.14 molecules bound per RBL cells was similar to that vivo in the passive cutaneous anaphylaxis reaction. The number of immunoblotting analysis demonstrated that the mAb reacted with the degranulation induced by IgE-antigen complexes both in vitro and in alpha.-subunit of the Fc.epsilon.R. Our

ACCESSION NUMBER: 1988:4906 DOCUMENT NUMBER: BA85:4906 L13 ANSWER 65 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS 1988:4906 BIOSIS

ij IGE IN THEIR BINDING TO THE FC ANTI-ANTI-IGE IDIOTYPIC ANTIBODIES MIMIC

EPSILON RECEPTOR.

AUTHOR(S): BANIYASH M; ESHHAR Z
CORPORATE SOURCE: WEIZMANN INST. SCI., DEP. CHEM. IMMUNOL.,

SOURCE: REHOVOT EUR J IMMUNOL, (1987) 17 (9), 1337-1342 CODEN: EJIMAF. ISSN: 0014-2980. 76100, ISRAEL

FILE SEGMENT: ANGUAGE: English BA; OLD

AB The binding site of some anti-idiotypic antibodies with purified murine monoclonal antibodies (mAb) that had been found to react with epitopes closely related to the interacting with the FcE receptor (FcER). Guinea pigs were immunized (anti-Id) can appear as a structural image of the antigen and as such may mimic its biologic activity. We raised anti-anti-IgE antibodies in an attempt to obtain anti-ld capable of

cells. In summary, by hyperimmunization with anti-IgE mAb we could obtain anti-Id whose antigen-binding site is recognized by the mast cell receptor specific to the Fc portion of Inhibited the binding of specific anti-FcER mAb to RBL the anti-Id caused RBL degranulation and all of them, like IgE, IgE binding as the intact anti-anti-Id antibodies. Some of affinity purified from immunosorbents made of the anti-IgE mAb. F(ab')2 and Fab' fragments were as effective inhibitors of basophilic leukemia (RBL) cells. The "IgE-like" anti-Id could be competed efficiently with the binding of IgE to rat about 6 months could we detect antibodies that inhibited the binding of IgE to the anti-IgE mAb used as immunogens. However, only after 10 immunizations over a period of site on the IgE molecule which is recognized by the FcER. After only injections, we could detect in the immune sera anti-Id that

ACCESSION NUMBER: 1987:396878 BIOSIS
DOCUMENT NUMBER: BA84:73058
TITLE: STUDIES OF IGE-DEPENDENT HISTAMINE RELEASING FACTORS L13 ANSWER 66 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS

NACLERIO R M; MACGLASHAN D W; KAGEY-SOBOTKA A CORPORATE SOURCE: DIV. CLINICAL IMMUNOL., JOHNS HOPKINS UNIV. SCH. LUTHOR(S): MED., GOOD SAMARITAN HOSP., 5601 LOCH RAVEN BLVD.

HETEROGENEITY OF IGE.

3): MACDONALD S M; LICHTENSTEIN L M; PROUD D; PLAUT

SOURCE: BALTIMORE, MD. 21239. J IMMUNOL, (1967) 139 (2), 506-512. CODEN: JOIMA3, ISSN: 0022-1767.

FILE SEGMENT: BA: OLD

English

AB Nasal lavage fluids from unstimulated individuals contain a desensitized by exposure to anti-IgE in the absence of calcium no longer respond to HRF, and desensitization with HRF reduces responsiveness to anti-IgE; and 2) removal of IgE from the filtration. Although some m.w. heterogeneity was observed, the majority of the HRF eluted at an apparent m.w. range of 15,000 to 30,000. This partially purified HRF induced histamine release from basophilis of certain individuals. Histamine release occurred previously described from macrophages, platelets, and from blister fluids obtained during the late cutaneous reaction. The nasal HRF was partially purified by ion-exchange chromatography and gel unresponsive to HRF. We have further defined this IgE dependence and basophII surface by using lactic acid renders cells via a mechanism which is IgE-dependent in that: 1) basophils histamine-releasing factor (HRF) similar to those which we have

donors respond to HRF is due to a previously unrecognized, functional heterogeneity of IgE. Thus, passive sensitization using sera from responders restored the responsiveness of acid-stripped the nose during the late-phase reaction, we suggest that nasal HRF may induce these cells to release histamine and other mediators of IgE from responder sera to induce responsiveness to HRF. We conclude that nasal lavage fluids contain an HRF which induces or purified penicillin-specific IgE antibody from a of the IgE) markedly reduced the ability of sera to induce sera was due to IgE because both heating sera at 56.degree. C for 2 hr and passage of sera over anti-IgE-Sepharose (which removes > 90% basophil surface in each case. This property of responder receptors. Sera from nonresponders failed to do this even though similar numbers of IgE molecules were put onto the of a nonresponder with naturally unoccupied IgE basophils and conferred responsiveness to basophils which could contribute to the symptomatology of the late-phase fashion but only from individuals with the appropriate type of IgE. basophil histamine release in a specific, IgE-dependent nonresponder competitively Inhibited the ability responsiveness, and because an excess of either purified IgE myeloma have shown that the reason that only selected basophil Because we have shown that basophIIs are recruited into

> FILE SEGMENT: TILE: L13 ANSWER 67 OF 76 MEDLINE ACCESSION NUMBER: 86158975 DOCUMENT NUMBER: 86158975 ENTRY MONTH: PUB. COUNTRY: AB Recent studies presented evidence that subpopulations of LANGUAGE: SOURCE: AUTHOR: allergic diseases. Konig W; Pfeiffer P; Rauschen I; Knoller J; Schonfeld W; Theobald K General Review, (REVIEW) 47 TRY: GERMANY, WEST: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) Journal code: 91U. ISSN: 0004-4172. The role of immunoglobulin E receptors in ARZNEIMITTEL-FORSCHUNG, (1985) 35 (12A) 1953-7. 198606 Priority Journals Ref

understood. The expression of low affinity receptors on lymphocytes appears to by intimately involved in the generation of IgE enhancing and suppressive factors. In future, these molecules might be available for immunotherapy. A summary of the recent knowledge led to important insights as to the requirements of IgE-antibody regulations. In addition, the membrane biochemical combined with our data is presented. mechanisms in the induction of mediator release became better IgE-receptor interactions with various cells has granulocytes and mast cells. The analysis of Fc epsilon-receptors on basophil (IgE)-specific membrane receptors which differ from the classical ymphocytes, monocytes and eosinophils carry immunoglobulin

DOCUMENT NUMBER: ACCESSION NUMBER: L13 ANSWER 68 OF 76 MEDLINE 85240533 85240533 MEDLINE DUPLICATE 35

Inhibition of the Prausnitz-Kustner

reaction by an immunoglobulin epsilon-chain fragment synthesized in E. coll.

AUTHOR: Geha R S; Helm B; Gould H

CONTRACT NUMBER: AM31925 (NIADDK)

AI20373 (NIAID)

SOURCE AI-10060 (NIAID) NATURE, (1985 Jun 13-19) 315 (6020) 577-8. Journal code: NSC. ISSN: 0028-0836. TRY: ENGLAND: United Kingdom

PUB. COUNTRY:

LANGUAGE: SEGMENT: Journal; Article; (JOURNAL ARTICLE) Priority Journals; Cancer Journals

₽

ENTRY MONTH: sensitizing serum. The efficacy of the C epsilon fragment in inhibiting the P-K reaction compared favourably with that of natural myeloma IgE (PS) in terms of both blocking concentrations class of immunoglobulin mediating allergic reactions. A fragment of the human myeloma ND epsilon-chain gene, encoding the second, third and fourth domains of the IgE constant region (C caused by the saturation of IgE receptors on P-K reaction by C epsilon 2-4 fragments was specific and probably and duration of the blocking effect. The inhibition of the excess of the C epsilon fragment over the IgE present in the epsilon 2-4) was assessed here for its ability to Inhibit the P-K reaction in vivo. Injection of the fragment in skin sites of mast cells by the recombinant gene product. Inhibition of the P-K reaction required a 200-fold molar containing IgE antibody to ragweed antigen. healthy human adults prevented subsequent sensitization with serum presence and activity in the skin of immunoglobulin E, an important The Prausnitz-Kustner (P-K) reaction is a sensitive test for the 198510

L13 ANSWER 69 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 85021017 EMBASE channel of basophils opening upon immunological stimulus. The cromolyn binding protein constitutes the Ca2+ Mazurek N.; Schindler H.; Schurholz Th.; Pecht I

CORPORATE SOURCE: Department of Chemical Immunology, The

SOURCE Institute of Science, Rehovot 76100, Israel (6841-6845) PROC. NATL ACAD, SCI. U. S. A., (1984) 81/211

CODEN: PNASA6

COUNTRY: United States

membrane of mast cells and basophils Ca2+ channel opening has been proposed to be induced in the plasma

yloxy)-2-hydroxypropane]. Planar membranes were first formed from lipid vesicles containing unfractionated plasma membrane components prepared from RBL-2H3 cells. Conductance of these bilayers was epsilon.) receptors of this membrane by a specific induced by crosslinking IgE bound to the Fc( membrane component as the cromolyn binding protein [CBP, in cromolyn is the anti-asthmatic drug 1,3-bis(2-carboxychromon-5-(RBL-2H3 line). These studies identify the Ca2+ channel-forming bilayers containing membrane components of rat basophits upon crosslinking their Fc(.epsilon.) receptors Here we report direct conductance measurements on planar lipid in which

conductances that display an even closer similarity to those observed in membranes containing CBP alone. Conductances of both types of planar membranes, irrespective of the mode of activation CBP by a monoclonal antibody specific to it resulted in the appearance of channel conductances. All characteristics of these channels exhibited great similarity to that of the Ca2+ ions - namely, 2 pS. Open channel times were in the range of several hundred milliseconds. Conductance amplitudes and time characteristics were independent of the applied voltage. As our plasma membranes. observed in experiments with the two types of planar bilayers provides compelling evidence that the CBP is the essential and used, were Inhibited by cromolyn. Furthermore, the conductance induced in RBL membranes by polyvalent antigen was inhibited on dissociation of the crosslinked aggregates by a polyvalent antigen. Channel conductance in the presence of only Ca2+ ions (2 mM) was 2 pS. When only sodium ions were present (150 mM) conductance was 10 pS. Upon addition of Ca2+ (2 mM) to the Na+ sufficient component forming Ca2+ channels in basophil monovalent hapten. The detailed resemblance in channel behavior monoclonal anti-CBP antibody induced channel membrane components. Moreover, in the latter membranes, the bilayers containing this isolated protein alone. Crosslinking of the conductance of basophil membranes, we formed planar earlier studies revealed the essential role of the CBP in Ca2+ those observed in planar membranes containing unfractionated RBL-2H3 ion-containing solution, the conductance decreased from 10 pS to

ACCESSION NUMBER: 1984:277242 BIOSIS DOCUMENT NUMBER: BA78:13722 L13 ANSWER 70 OF 76 BIOSIS COPYRIGHT 1999 BIOSIS DUPLICATE 36

REHOVOT TITLE: RESTORATION OF CALCIUM INFLUX AND DE GRANULATION CAPACITY OF VARIANT RBL-2H-3 CELLS UPON IMPLANTATION OF ISOLATED CROMOLYN BINDING PROTEIN.

AUTHOR(S): MSZUREK N; BASHKIN P; LOYTER A; PECHT I
CORPORATE SOURCE: DEP. CHEM. IMMUNOL., WEIZMANN INST. SCI,

FILE SEGMENT: 76100, ISR.
PROC NATL ACAD SCI U S A, (1983) 80 (19), 6014-8018.
CODEN: PNASA6. ISSN: 0027-8424. BA; OLD

SOURCE

LANGUAGE: English

AB Variants of the rat basophilic leukemia cells (RBL-2H3), deficient the mechanism distal to the Ca2+ gating is intact in the variants. The cromolyn binding protein (CBP), present in the membranes of RBL-2H3 cells was isolated by affinity chromatography under parental cells, they cannot be stimulated immunologically to allow Ca2+ influx and to degranulate. The Ca2+ ionophore A23187 in their binding capacity for the antiallergic drug cromolyn but displaying unimpaired ability to bind IgE, were selected and cloned Although the histamine content and the number of IgE [calcimycin] causes these variants to degranulate, indicating that receptors in these variants are similar to those of the

uptake and degranulation in mast cells and parental RBL-2H3 cells. Thus, CBP plays an important role in the antibodies specific to CBP, both shown to prevent Ca2+ inhibitory drug cromolyn and by monoclonal of implanted CBP approaches its density on the latter line. The restored capacity is due to the implanted CBP because the dependence on the amount of incorporated CBP. Saturation values comparable to those of the parental line are reached when the level stimulation. These restored activities seem to show a sigmoidal and degranulation capacity of the variants after IgE-mediated CBP into the membrane of variant basophils that were defective in it. This fusion leads to the restoration of Ca2+ uptake Ca2+ gating process resulting in degranulation. reinstated immunological response can be blocked by the envelopes were used as fusogenic carriers to implant the purified non-denaturing conditions. In the current study Sendai-virus

ij ACCESSION NUMBER: 83109938
DOCUMENT NUMBER: 83109938 L13 ANSWER 71 OF 76 MEDLINE Does hyperimmunoglobulinemia-E protect tropical MEDLINE **DUPLICATE 37** 

PUB. COUNTRY: SOURCE: populations from allergic disease?,
Larrick J W; Buckley C E 3d; Machamer C E; Schlagel G
D; Yost J A; Blessing-Moore J; Levy D
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, Journal code: H53. ISSN: 0091-6749 Feb) 71 (2) 184-8. United States

THOR:

LANGUAGE Journal; Article; (JOURNAL ARTICLE)

FILE SEGMENT: The Waorani Indians of eastern Ecuador have the highest blood 198305 Abridged Index Medicus Journals; Priority Journals

low prevalence of conventional atopic disease has been reported in hypersensitivity skin tests suggests that pollen allergy concentration of IgE reported in a human population. Evidence obtained by medical history, physical examination, and immediate numerous other tropical populations. Saturation of mast association between parasite-induced hyperimmunoglobulinemia-E and a and other atopic diseases are rare among the Waorani. A similar

cell IgE receptors with

pollen allergen-specific IgE is one hypothetical cause of this association. We have tested this interesting conjecture by passively sensitizing the skin of Waorani Indians with serum and competitive inhibition of passive binding of antibodies directed to the parasite and/or other antigens containing pollen allergen-specific lg⊑ antibodies

. Waorani Indians with hyperimmunoglobulinemia-E can be adoptively sensitized with human ragweed or rye grass hyperimmune IgE antisera. This suggests that the cutaneous mast cells of

healthy Waorani have active IgE receptors. The high circulating plasma concentrations of IgE in the Waorani do not prevent adoptive cutaneous sensitization with pollen-specific IgE

L13 ANSWER 72 OF 76 MEDLINE ACCESSION NUMBER: 83081630 DOCUMENT NUMBER: 83081630 The mechanism of passive sensitization: occupation of MEDLINE

**DUPLICATE 38** 

free IgE receptors or exchange

with cell-bound IgE.

AUTHOR: Van Toorenengen A W; Aalberse R C;

Reerink-Brongers E E

SOURCE: INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED

IMMUNOLOGY, (1983) 70 (1) 71-7.

Journal code; G99, ISSN: 0020-5915.

PUB. COUNTRY: Switzerland

Journal; Article; (JOURNAL ARTICLE)

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198304

AB Leukocytes were passively sensitized, as judged by allergen induced histamine release. Before and after passive sensitization,

amounts of IgE become bound to basophil leukocytes during passive sensitization, compared with the amounts of IgE aiready present on these cells. Exchange of IgE between cells and no fluorescence was observed on basophil leukocytes, subsequently with fluorescein-labeled anti-TNP antibodies, leukocytes were incubated with TNP-labeled myeloma Ig∈ and leukocytes with excess irrelevant IgE had no effect on the sensitization. Postincubation of in vivo- or in vitro-sensitized leukocytes. Preincubation of leukocytes with excess irrelevant IgE measurable increase in IgE load was observed. When leukocytes were antiserum-induced histamine release. It is concluded that only small although binding of TNP-labeled IgE was demonstrated by anti-TNP sensitivity of these cells towards allergen. When resulted in Inhibition of a subsequent passive allergen-specific IgE was found in acid eluates of these incubated with acid buffer after passive sensitization, no measured by quantitative immunofluorescence microscopy. No the amount of total IgE on basophil leukocytes was sensitizing serum does not take place to a measurable extent during bassive sensitization

L13 ANSWER 73 OF 76 CANCERLIT ACCESSION NUMBER: 82626996 CANCERLIT DOCUMENT NUMBER: 82626996 **DUPLICATE 39** 

HUMAN CHARACTERIZATION OF FC RECEPTORS FOR IGE ON

CORPORATE SOURCE: (c/o Spiegelberg), Scripps Clinic and Res. Foundation, 10666 N. Torrey Pines Road, La Jolla, CA, ALVEOLAR MACROPHAGES.

Melewicz F M; Kline L E; Cohen A B; Spiegelberg H L

SOURCE 364-370. Clin Exp Immunol, (1982). Vol. 49, No. 2, pp.

ISSN: 0009-9104

DOCUMENT TYPE: Jou Journal; Article; (JOURNAL ARTICLE)

English

ENTRY MONTH: AB Human alvec sex, diagnosis or smoking history of the patients and the percentage of aMphi forming Eo lgE rosettes. These studies demonstrate that a chronic myelogenous leukemia. There was no relationship between age, Inhibited EoʻlgE rosettes formed by peripheral blood monocytes and cultured macrophage-like U937 cells but not those 90.2 +-1 6.0% EoA rosettes. Incubation of the aMphi with a goat antibodies (EoA) formed rosettes with 64.1 +-20.3% of the amphi. Peripheral blood monocytes formed 10.6 +-1.2% Eo-IgE and proteins and by IgE Fc fragments but not by myeloma proteins of the other Ig classes or by IgE denatured by heating or reduction epsilon R) and IgG (Fc gamma R) by rosette assays. A mean +-1 s.d. of 8.0 +-2.6% of aMphi formed rosettes with fixed ox R on lymphocytes and monocytes. Fc epsilon R(+) subpopulation of human aMphi bear Fc epsilon R formed by basophilic granulocytes obtained from a patient with inhibited Eo'-IgE rosette formation on aMphi by 80% but did antiserum to human lymphocyte Fc epsilon R and alkylation. Fresh ox erythrocytes sensitized with rabbit IgG Eo'-lgE rosettes were inhibited by two lgE myeloma erythrocytes coated with an IgE myeloma protein (Eo'-IgE). The pulmonary lobes were analyzed for Fc receptors for IgE (Fc that share antigenic determinants with Fc epsilon not affect the percentage of EoA rosettes. The antiserum also performed during bronchoscopy and after surgical removal of Human alveolar macrophages (aMphi) isolated from lung lavages

inflammatory pulmonary diseases by inducing the release of mediators of inflammation after interaction with IgE immune complexes. (Author abstract) (24 Refs) aMphi may play an important role in allergic and

L13 ANSWER 74 OF 76 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. ACCESSION NUMBER: 80185177 EMBASE
TITLE: Stimulation of phospholipid methylation, Ca2+ influx,

Hosp., AUTHOR: Ishizaka T.; Hirata F.; Ishizaka K.; Axeirod J. CORPORATE SOURCE: Johns Hopkins Univ. Sch. Med., Good Samaritan

SOURCE: Baltimore, Md. 21239, United States PROC. NATL. ACAD. SCI. U. S. A., (1980) 77/41

(1903-1906) CODEN: PNASA6

United States

LANGUAGE:

AB Normal rat mast cells were stimulated by influx, and in histamine release. By contrast, Fab' monomer fragments of anti-RBL induced none of these reactions. The transient increase of (3Hpmethy lincopropation in lipids peaked within 15 sec after the addition of either anti-RBL or anti-IgE and fell to basal level in 30 sec. This was then followed by an influx of 45Ca that increased to a maximum in 2 min and by histamine release that reached a maximum in 3 min. Inhibition of phospholipid in the incorporation of [3H]methyl into phospholipids, in 45Ca phospholipids, 45Ca uptake, and histamine release were examined. Anti-RBL or its F(ab')2 fragments and anti-IgE induced an increase antibodies against IgE receptors

(anti-RBL) or by anti-IgE, and [3H]methyl group incorporation into histamine release. These findings demonstrate that phospholipid methylation resulted in an Inhibition of 45Ca influx and

L13 ANSWER 75 OF 76 MEDLINE ACCESSION NUMBER: 79171919 MEDLINE DUPLICATE 8

and that increased methylation of phospholipids sets the stage for an influx of Ca2+ and subsequent release of histamine.

bridging of IgE receptors on the cell surface methylation in rat mast cells is induced by

ACCESSION NUMBER: 79171919
DOCUMENT NUMBER: 79171919

TITLE: Regulation of asthma by intestinal parasites.
Investigation of possible mechanisms.
AUTHOR: Turner K J; Quinn E H; Anderson H R
SOURCE: IMMUNULOGY, (1978 Aug) 35 (2) 281-8.
Journal code: GH7. ISSN: Q019-2805.
PUB. COUNTRY: ENGLAND: United Kingdom

VTRY: ENGLAND: United Kingdom Journal; Article; (JOURNAL ARTICLE)

FILE SEGMENT: LANGUAGE: English Priority Journals

ENTRY MONTH: 197909

AB The serum IgE levels of asthmatic subjects from Papua, New Guniea tropical areas where parasitism is endemic is attributed to mast cell blockade through saturation of hookworm, suggesting that antigenic competition is not a factor of importance in sensitization to environmental levels of IgE antibodies to D. pteronyssinus (RAST units) were similar in both asthmatic groups. The mite specific IgE antibody levels were independent of those to Ascaris and (PNG) were similar to those of corresponding control subjects but significantly higher than Caucasian asthmatics from Western Australia (AUS). Notwithstanding these differences in total IgE, the IgE receptors. proposal that the low prevalence of allergic disease in allergens in the tropics. This study does not support the

ACCESSION NUMBER: 78243751
DOCUMENT NUMBER: 78243751 L13 ANSWER 76 OF 76 MEDLINE 78243751 MEDLINE

The role of basophils in inflammatory

reactions.

AUTHOR: Lichtenstein L M; Marone G; Thomas L L; Malveaux F J JOURNAL OF INVESTIGATIVE DERMATOLOGY, (1978 Jul)

(1) 65-9. Ref: 47

Journal code: IHZ. ISSN: 0022-202X.
PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

General Review, (REVIEW)

FILE SEGMENT: ENTRY MONTH: LANGUAGE: English 197812 Abridged Index Medicus Journals; Priority Journals

AB This review demonstrates that basophlls reflect skin and

antigens, the serum cascade systems, and other inflammatory cells. response. It is concluded that basophols play a significant in vivo role in inflammation by acting as an interface between foreign however, quite different, although phagocytic stimuli, which fail to cause basophil mediator release, potentiate the IgE back to negatively modulate basophil and mast the eosinophil chemotactic factor of anaphylaxis (ECFA), a slow reacting substance of anaphylaxis (SRS-A), and a kallikrein. The stimuli for primary basophII and neutrophil release are, neutrophils, basophils contain beta-glucuronidase while also Inhibits lymphocyte and neutrophil function. Like cell release through a specific histamine 2-receptor, it adenosine levels appear prominent in this control. Histamine feeds interactions that determine the cyclic AMP level; plasma and tissue release process is controlled by hormone-basophil receptor disease states. Basophils contain and release histamine, neutrophils contain SRS-A and a low-molecular-weight ECF. The disease. Although the numbers of IgE molecules and IgE characteristic changes in mediator release associated with clinical lung mast cell reactivity and show have, in most instances, little influence on the release of receptors on basophils have been enumerated, these releasability" that may be a major variable in allergic nistamine after challenge. There is, rather, a parameter of

#### => file uspatfull

FILE "USPATFULL" ENTERED AT 17:27:33 ON 03 JAN 1999
CA INDEXING COPYRIGHT (C) 1999 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 29 Dec 1998

HIGHEST PATENT NUMBER: USS855020
CA INDEXING IS CURRENT THROUGH 30 Dec 1998 (19981230/UPCA)
ISSUE CLASS FIELDS (INCL) CURRENT THROUGH: 29 Dec 1998 REVISED CLÁSS FIELDS (INCL) LAST RELOADED: May 1998
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug (19981229/PD) LE LAST UPDATED: 30 Dec 1998 (19981230/ED)

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>>> USPTO Manual of Classifications in the /NCL\_//NCL\_ and /RPCL <<>>> fields. This thesaurus includes catchword terms from the <<<>>> USPTO/MOC subject headings and subheadings. Thesauri are also <<<>>>> available for the VIPO International Patent Classification </>
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>>> terms from the IPC subject headings and subheadings. >>> (IPC) Manuals, editions 1-6, in the /IC1, /IC2, /IC3, /IC4, <<<>>>> /IC5, and /IC (/IC8) fields, respectively. The thesauri in <<<>>>> the /IC5 and /IC fields include the corresponding catchword

This file contains CAS Registry Numbers for easy and accurate

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=> d I14 1-18 ibib ab

# (FILE 'HOME' ENTERED AT 16:59:36 ON 03 JAN 1999) SET PLURALS ON

FILE 'MEDLINE, CANCERLIT, BIOSIS, EMBASE, WPIDS' ENTERED AT 17:01:15 ON 03 JAN 1999

L1 2224 S FC.EPSILON.RI
L2 62101 S MAST CELL
L3 6857 S FC.EPSILON. OR IGE(W)RECEPTOR
L4 1244 S L1 AND L2
L5 404 S L4 AND (ANTIBOD? OR MONOCLON? OR
CHIMERIC(W)ANTIBOD? O
L6 101 S L5 AND (ALLERG?)

MONOCLON? OR 18464 S L8 OR BASOPHIL 8 S L10 NOT L9 145 S (L2 OR BASOPHIL) AND L3 AND (ANTIBOD? OR 8456 S BASOPHIL 52 DUP REM L6 (49 DUPLICATES REMOVED)
22 S L7 AND (INHIBIT? OR REDUC? OR AMELIORAT? OR 76 DUP REM L12 (69 DUPLICATES REMOVED)

# FILE 'USPATFULL' ENTERED AT 17:27:33 ON 03 JAN 1999

=> s l6 and (inhib? or reduc? or ameliorat? or compet?)

14881 ALLERG? 265102 INHIB? 1389860 REDUC? 1910 MAST CELL (MAST(W)CELL) 32647 ANTIBOD? 15542 MONOCLON? 11341 AMELIORAT? 65071 COMPET? 4238 CHIMERIC 24 CHIMERICS 4238 CHIMERIC (FC OR FCS) 41540 EPSILON 4 EPSILONS (CHIMERIC OR CHIMERICS) 15542 MONOCLON? (CHIMERIC OR CHIMERICS)
32647 ANTIBOD? 220814 CELL 4238 CHIMERIC 10896 MAST 10380 MAST 4238 CHIMERIC 78765 CELLS 10293 RI 41540 EPSILON 1183 CHIMERIC(W) ANTIBOD? 1876 MASTS 9688 RI 20063 FC 110 CHIMERIC(W) MONOCLON? (RI OR RIS)
27 FC.EPSILON.RI
(FC(W)EPSILON(W)RI) 681 RIS 18 L6 AND (INHIB? OR REDUC? OR AMELIORAT? OR COMPET?) (MAST OR MASTS) (CELL OR CELLS) (EPSILON OR EPSILONS)

INVENTOR(S): L14 ANSWER 1 OF 18 USPATFULL ACCESSION NUMBER: 1998:1597 1998:159760 USPATFULL

PATENT ASSIGNEE(S): The General Hospiu
United States (U.S. corporation) Targeted cytolysis of HIV-infected cells by chimeric CD4 receptor-bearing cells
Seed, Brian, Boston, MA, United States
Banapour, Babak, Boston, MA, United States
Romeo, Charles, Belmont, MA, United States
Kolanus, Waldemar, Watertown, MA, United States The General Hospital Corporation, Boston, MA,

DATE

PRIMARY EXAMINER: BUILDING BY BENEARY EXAMINER: LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT. PATENT INFORMATION: APPLICATION INFO.: L NUMBER OF DRAWINGS: DOCUMENT TYPE RELATED APPLN. INFO.: express a membrane-bound, proteinaceous chimeric receptor comprising (a) an extracellular portion which includes a fragment of CD4 which is capable of specifically recognizing and binding the HIV-infected cell but which does not mediate HIV infection and Disclosed is a method of directing a cellular immune response against an HIV-infected cell in a mammal involving administering to the mammal an effective amount of therapeutic cells which (b) an intracellular portion which is capable of signalling the therapeutic cell to destroy the receptor-bound HIV-infected cell. Also disclosed are cells which express the chimeric receptors and DNA and vectors encoding the chimeric receptors. filed on 6 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 91-665961, filed on 14 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 92-847566, filed on 7 Mar 1991, now abandoned V: US 5851828 981222 US 94-284391 940802 (8) 5 Budens, Robert D. E: Clark & Elbing LLP Continuation-in-part of Ser. No. US 94-195395, 56 Drawing Figure(s); 27 Drawing Page(s)

PATENT ASSIGNEE(S): National Jewish Center For Immunology and L14 ANSWER 2 OF 18 USPATFULL
ACCESSION NUMBER: 1998:159720 USPATFULL INVENTOR(S) polymerization (U.S. corporation) Respiratory Medicine, Denver, CO, United States Product and process to regulate actin Johnson, Gary L., Boulder, CO, United States

# NUMBER DATE

APPLICATION INFO.:

PATENT INFORMATION: US 5851786 981222

US 95-534694 950927

@

LINE COUNT: 1622
CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF CLAIMS: EXEMPLARY CLAIM: LEGAL REPRESENTATIVE: Lahive & Cockfield, LLP; DeConti, Jr., Giulio A.; PRIMARY EXAMINER: LINE COUNT NUMBER OF DRAWINGS: responses and neuronal responses, kits to perform such assays and methods to control disease related to such responses. The present invention relates to methods useful for identifying compounds capable of specifically regulating actin polymerization, stress fiber formation or focal adhesion assembly by regulating in inflammatory responses, immune responses, allergic G.sub..alpha.12 and/or G.sub..alpha.13 activity in cells involved Kara, Catherine J. Leary, Louise 6 Drawing Figure(s); 6 Drawing Page(s)

Kolanus, Waldemar, Watertown, MA, United States
PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MA, L14 ANSWER 3 OF 18 USPATFULL ACCESSION NUMBER: 1998;150 INVENTOR(S): Seed, Brian, Boston, MA, United States Romeo, Charles, Belmont, MA, United States chimeras Redirection of cellular immunity by receptor 1998:150744 USPATFULL

# NUMBER DATE

United States (U.S. corporation)

APPLICATION INFO: US 95-417495 950405 (8)
RELATED APPLN. INFO: Continuation of Ser. No. US 94-203886, filed on RELATED APPLN. INFO: Continuation of Ser. No. US 92-847586, filed on 6 PATENT INFORMATION: APPLICATION INFO.: L US 5843728 981201

LEGAL REPRESENTATIVE: Clark & Elbing LLP NUMBER OF CLAIMS: 55
EXEMPLARY CLAIM: 32 DOCUMENT TYPE: continuation-in-part of Ser. No. US 91-665961, Mar 1992, now abandoned which is a filed on 7 Mar 1991, now abandoned Cartson, Karen Cochrane

filed on 7 Jun 1995
DOCUMENT TYPE: Utility

Feisee, Lila

Bansal, Geetha

Lahive & Cockfield, LLP

PATENT INFORMATION:
APPLICATION INFO:
RELATED APPLN. INFO:

N: US 5837243 981117 US 96-661052 960607 (8)

Continuation-in-part of Ser. No. US 95-484172,

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: LEGAL REPRESENTATIVE: ASSISTANT EXAMINER: PRIMARY EXAMINER:

1,10

49 Drawing Figure(s); 29 Drawing Page(s)

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L14 ANSWER 4 OF 18 USPATFULL ACCESSION NUMBER: 1998:150

anti-inflammatory or anti-allergic

MBER: 1998:128081 USPATFULL Method for screening for targets for

agents

L14 ANSWER 6 OF 18 USPATFULL ACCESSION NUMBER: 1998:128

methods for making the motecules are described.

Multispecific multivalent molecules which are specific to an Fc receptor (FcR), and therapeutic uses and therapeutic uses and

Brauer, Andrew W., Salem, MA, United States Bizinkauskas, Christine B., Dorchester, MA,

INVENTOR(S): Revetch, Jeffrey V., New York, NY, United States Kurosaki, Tomohiro, Fort Lee, NJ, United States PATENT ASSIGNEE(S): Sloan-Kettening Institute for Cancer Research, New York, NY, United States (U.S. corporation)

PATENT INFORMATION: US 5824487 981020
APPLICATION INFO: US 95-542686 951013 (8)
RELATED APPLIL INFO: Continuation of Ser. No. US 93-52269, filed on 23

NUMBER DATE

LEGAL REPRESENTATIVE: Hanley, Elizabeth A.; Mandragouras, Amy

peptide having Can f II activity and a predicted molecular weight of about 16,200 dattons is also disclosed. The nucleic acids can be used as probes to detect the presence of Can f I or Can f II nucleic acid in a sample or for the recombinant production of peptides having a Can f I or Can f II activity. Peptides having a Can f I or Can f II activity can be used in compositions suitable for pharmaceutical administration or methods of diagnosing familiaris, Can f I or Can f II, are disclosed. A cDNA encoding a peptide having a Can f I activity and a predicted molecular weight of about 19,200 daltons is also described. A cDNA encoding a sensitivity to dog dander. Isolated nucleic acids encoding allergens of Canis

L14 ANSWER 5 OF 18 USPATFULL ACCESSION NUMBER:

receptor antibodies Therapeutic compounds comprised of anti-Fc 1998:143654 USPATFULL

INVENTOR(S): Deo, Yashwant M., Audubon, PA, United States Goldstein, Joel, Edison, NJ, United States Graziano, Robert, Frenchtown, NJ, United States Somasundaram, Chezian, Allentown, PA, United

PATENT ASSIGNEE(S): corporation) Medarex, Inc., Annandale, NJ, United States (U.S.

NUMBER DATE

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWNINGS: 29 Drawing Figure(s); 28 Drawing Page(s) PRIMARY EXAMINER: Grim APPLICATION. INFO: US 98-487803 950606 (8)
RELATED APPLN. INFO: Division of Ser. No. US 93-156549, filed on 22
Nov 1993 which is a continuation-in-part of Ser.
No. US 92-999712, filed on 31 Dec 1992, now APPLICATION INFO.: ( PATENT ASSIGNEE(S): ImmuLogic Pharmaceutical Corporation, Waltham, MA, United States (U.S. corporation) CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: VENTOR(S): by expressing in a cell of the mammal a chimeric receptor which causes the cells to specifically recognize and destroy an infective agent, a cell infected with an infective agent, a tumor or cancerous cell, or an autoimmune-generated cell. Also disclosed the chimeric receptors. are cells which express the chimeric receptors and DNA encoding Disclosed is a method of directing a cellular response in a mammal & Cockfield, LLP Allergenic proteins and peptides from dog dander and uses therefor Morgenstern, Jay P., Boston, MA, United States Konieczny, Andrzej, Belmont, MA, United States abandoned NUMBER DATE Grimes, Eric US 5843672 981201 1998:150689 USPATFULL 45 Drawing Figure(s); 22 Drawing Page(s)

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Sch
LEGAL REPRESENTATIVE: V
NUMBER OF CLAIMS: 9 ₽ CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 44 Drawing Figure(s); 20 Drawing Page(s) EXEMPLARY CLAIM: antibody receptor, whose cytoplasmic domain comprising an ARH1 motif, comprising (a) obtaining cells comprising receptors having the ARH1 motif (b) lysing the cells under conditions whereby the native complex of the receptor having the ARH1 motif and the cellular protein is preserved; (c) isolating the complex. receptor, whose cytoplasmic domain comprising an ARH1 motif. This invention further provides a method for identifying a cellular molecule capable of being a target for designing drugs for autoimmune disease, inflammation or altergy which comprises (a) contacting a cell lysate with a molecule having a motif of amino acid sequence, AEMITTYSLLKHP under the conditions permitting formation of a complex between the cellular target molecule with the motif; (b) isolating the complex formed in step and (d) testing the associated receptor and the protein for biochemical activities, thereby identifying the cellular protein capable of specifically binding to an activated antibody This invention provides a method for identifying a cellular protein capable of specifically binding to an activated (a); and (c) testing the complex for biochemical activities, thereby identifying the cellular molecule capable of being a target for designing drugs for autoimmune disease, inflammation or Apr 1993, now abandoned 999 Schwadron, Ronald B. White, John P.

L14 ANSWER 7 OF 18 USPATFULL ACCESSION NUMBER: and subunit of the high affinity receptor for Isolation, characterization, and use of the human 1998:112061 USPATFULL

INVENTOR(S): Kinet, Jean-Pierre, Bethesda, MD, United States
Jouvin, Marie-Helene, Bethesda, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by
the Department of Health and Human Services,
Washington, DC, United States (U.S. government) immunoglobulin E

NUMBER DATE

PRIMARY EXAMINER: Ulm filed on 16 Apr 1992
DOCUMENT TYPE: Utility PATENT INFORMATION: US 5807988 980915
APPLICATION INFO: US 94-201879 940224 (8)
RELATED APPLN, INFO: Continuation-in-part of Ser. No. US 92-869933, PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, æ NVENTOR(S): ACCESSION NUMBER: L14 ANSWER 8 OF 18 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 37 Drawing Figure(s); 29 Drawing Page(s) EXEMPLARY CLAIM: NUMBER OF CLAIMS: LEGAL REPRESENTATIVE: the ARAM-gamma. subunit of Fc.epsilon. RI. The invention further relates to a method of producing allergic reactions. sequences of the subunit. A segment of the amino acid sequence containing an antigen recognition activation motif (ARAM) that exhibits different functions than other ARAMS, including that of subunits in a host cell simultaneously. Aspects of the invention are methods and compositions to Inhibit the function of The present invention relates to nucleic acid sequences, encoding amino acid sequences of the .beta., and subunit of the human high affinity receptor for immunoglobulin E, and for amino acid the human beta subunit, thereby treating or preventing the receptor by expressing cDNA for its a, .beta., and .gamma immunoglobulin E Kinet, Jean Pierre, Bethesda, MD, United States beta subunit of the high affinity receptor for MBER: 1998:72429 USPATFULL Isolation characterization, and use of the human 2189 Ulm, John Klarquist Sparkman Campbell Leigh & Whinston,

Washington, DC, United States (U.S. government)

APPLICATION INFO.: DOCUMENT TYPE: PRIMARY EXAMINER: PATENT INFORMATION: US 92-869933 920416 (7) A LIE Ulm, John US 5770396

NUMBER DATE

NUMBER OF DRAWINGS: LINE COUNT: 2759 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 20 60 Drawing Figure(s); 52 Drawing Page(s)

"EGAL REPRESENTATIVE: Klarquist Sparkman Campbell Leigh & Whinston,

CAS INDEXING IS AVAILABLE FOR THIS PATENT. alpha., .beta., and .gamma. subunits in a host cell simultaneously. Aspects of the invention are methods and compositions to inhibit the function of the human beta The present invention relates to nucleic acid sequences, encoding amino acid sequences of the alpha., beta, and gamma subunits of the high affinity receptor for immunoglobulin E, and for amino acid sequences of the subunits. The invention further relates to a subunit, thereby treating or preventing allergic method of producing the receptor by expressing cDNA for its

L14 ANSWER 9 OF 18 USPATFULL ACCESSION NUMBER: 1998:118 1998:11885 USPATFULL

INVENTOR(S): Methods for diagnosis of allergy

PATENT ASSIGNEE(S) . Wai Fei, David Tai, Belmont, CA, United States
Lowe, John, Daly City, CA, United States
Jardieu, Paula, San Francisco, CA, United States
GNEE(S): Genentech, Inc., South San Francisco, CA, United States (U.S. corporation)

NUMBER DATE

PATENT INFORMATION: US 57143 WO 9516203 950615 US 5714338 980203

LINE COUNT:

1/40

CAS INDEXING IS AVAILABLE FOR THIS PATENT,

CAS INDEXING IS AVAILABLE FOR THIS PATENT,

AB This invention discloses high-affinity oligonucleotide ligands to human immunoglobulin E (gE), specifically RNA and scDNA ligands having the ability to bind to IgE, and the methods for obtaining the ability to bind to IgE, and the methods for obtaining the INVENTOR(S):
States 950227 PCT 102(e) date
RELATED APPLN. INFO: Continuation-in-part of Se
filed on 10 Dec 1993, now abandoned INVENTOR(S): Che
PATENT ASSIGNEE(S): DOCUMENT TYPE: Utility
PRIMARY EXAMINE: Utioner, Stephanie W.
LEGAL REPRESENTATIVE: Swanson & Bratschun LLC
NUMBER OF CLAIMS: 7 PATENT INFORMATION: Gold, Larry, Boulder, CO, United States
PATENT ASSIGNEE(S): NeXstar Pharmaceuticals, Inc., Boulder, CO, ACCESSION NUMBER: 97:104615 USPATFULL NUMBER OF CLAIMS: EXEMPLARY CLAIM: APPLICATION INFO .: EXEMPLARY CLAIM: RELATED APPLN. INFO.: CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 20 Drawing Figure(s); 11 Drawing Page(s) ASSISTANT EXAMINER: PRIMARY EXAMINER: DOCUMENT TYPE L14 ANSWER 11 OF 18 USPATFULL
ACCESSION NUMBER: 97:86732 USPATFULL APPLICATION INFO.: \_EGAL REPRESENTATIVE: Love, Richard B. genetically engineered to display surface expression of a Fc.epsllon.Rl subunit that is capable disease wherein IgE specific for an allergen of interest is detected in a patient serum sample by using the patient serum sample to sensitize in the presence or absence of an IgE mediator produced by host cells sensitized with patient serum in the presence of the IgE antagonist to the release of the pharmacological mediator produced by host cells sensitized with serum sample by comparing the release of the pharmacological specific to the altergen of interest in the patient of interest, and determining the presence or absence of IgE challenging the sensitized host cells with the allergen of mediating the host cells release of a pharmacological mediator upon induction with patient serum and allergen, antagonist a mast cell or basophil host patient serum in the absence of the IgE antagonist. interaction of IgE with its receptor. Provided are methods for the diagnosis of allergic monoclonal antibodies for mucosal administration immunoglobulin E (IgE) ): Wiegand, Torsten Walter, Boulder, CO, United abandoned And Ser. No. US 92-964624, filed on 21 Oct 1992, now patented, Pat. No. US 5496938 And Ser. No. US 94-317403, filed on 3 Oct 1994 WO 94-US14282941209 5475096 which is a continuation-in-part of Ser. No. US 90-536428, filed on 11 Jun 1990, now United States (U.S. corporation) LN. INFO.: Continuation-in-part of Ser. No. US 91-714131, filed on 10 Jun 1891, now patented, Pat. No. US asset, Diane, Boulder, CO, United States NUMBER DATE Allergen-specific human IgA High-affinity oligonucleotide ligands to Chang, Tse Wen, Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United N: US 5686592 971111 US 95-471985 950606 (8) US 95-393014 950227 Chan, Christina Y.

VanderVegt, F. Pierre 5 Continuation-in-part of Ser. No. US 93-165436, PCT 371 date @

States (U.S. corporation)

09/090,375

### NUMBER DATE

PATENT INFORMATION: US 5870626 970923

APPLICATION INFO: US 94.263258 940621 (6)

RELATED APPLN, INFO: Continuation-in-part of Ser. No. US 92.994126, filed on 21 Dec 1992, now abandoned DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Mirabel, Eric P.

NUMBER OF CLAIMS: 2

EXEMPLARY CLAIM: 1,2

LINE COUNT: 765

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are pharmaceutical preparations containing human monoclonal lgA antibodies specific for major allergenic proteins found in ragweed, house dust mites, and cat and dog dander, Also disclosed are constructs comprising allergenic proteins found in ragweed, house dust mites.

allergenic proteins found in ragweed, house dust mites, and cat and dog dander. Also disclosed are constructs comprising physiological compatible polymer backbones or microbeads and a plurality of covalently conjugated allergen-specific binding molecules. Such binding molecules are leg or lgA or their F(abr) sub 2, Fab, or Fv fregments, specific by the major allergenic proteins mentioned above. Also disclosed are methods for treating a patient with allergic minits, asthma, or conjunctivitis by applying a pharmaceutical preparation containing the antibodies specific for the allergenic molecules, to which the patient is sensitized, to the patient's affected mucosal tissues, such as the nasal linings, the respiratory tract, or the eyes.

other test protein.

L14 ANSWER 12 OF 18 USPATFULL
ACCESSION NUMBER: 97:70719 USPATFULL
TITLE: Method of treatment of parasitic infection using
lgE antagonists
INVENTOR(S): Amini, Payman, San Francisco, CA, United States
INVENTOR(S): Haak-Frendscho, Mary, Fitchburg, WI, United
States
Jardieu, Paula M., Berkeley, CA, United States
Jardieu, Paula M., Berkeley, CA, United States
PATENT ASSIGNEE(S): Genentech, Inc., South San Francisco, CA, United

# NUMBER DATE

States (U.S. corporation)

PATENT INFORMATION: US 5656273 970612
APPLICATION INFO:: US 95-422748 950414 (8)
RELATED APPLIN, INFO:: Continuation of Ser. No. US 94-184083, filed on 18 Jan 1994, now abandoned
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Fitts, Renee A.; Teskin, Robin L.; Svoboda, Craig
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 28
NUMBER OF CLAIMS: 9 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 658
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
A This invention concerns a method for the prevention and treatment of parasitic infection by administering an [9E antagonists. The invention further concerns pharmaceutical compositions and

L14 ANSWER 13 OF 18 USPATFULL
ACCESSION NUMBER: 97.49515 USPATFULL
TITLE: Nethod to detect protein-protein interactions
INVENTOR(S): Dalton, Stephen, Bloomfield, NJ, United States
Kochan, Jarema P., Verona, NJ, United States
Osborne, Mark A., South Brunswick, NJ, United
States
PATENT ASSIGNEE(S): Hoffmann-La Roche Inc., Nutley, NJ, United States

bispecific molecules useful in such method.

#### NUMBER DATE

(U.S. corporation)

PATENT INFORMATION: US 5637463 970610

S.; Semionow, Raina
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: AB Methods are provided for studying protein-protein interactions CAS INDEXING IS AVAILABLE FOR THIS PATENT. LEGAL REPRESENTATIVE: Johnston, George W.; Rocha-Tramaloni, Patricia ASSISTANT EXAMINER: PRIMARY EXAMINER: APPLICATION INFO: chimeric proteins contains a transcriptional activation domain fused to a test protein. The second chimeric protein contains a DNA-binding domain of a transcriptional activator fused to the dependent on the interactions between three different proteins
These include two chimeric proteins, one of which must be
posttranslationally modified by the activity of the third protein which require posttranslational modification of one of the proteins. The interaction is detected by reconstituting the in order for the chimeric proteins to interact. One of the activity of a transcriptional activator. This activity is US 95-434730 950504 (8) **Attitud** Brusca, John S. Ketter, James 11 Drawing Figure(s); 10 Drawing Page(s)

L14 ANSWER 14 OF 18 USPATFULL
ACCESSION NUMBER: 97.40635 USPATFULL
TITLE: immunoglobulin E (gE)
INVENTOR(S): Wiegand, Torsten W., Boulder, CO, United States
Tasset, Diane, Boulder, CO, United States
Gold, Larry, Boulder, CO, United States
PATENT ASSIGNEE(S): Nextsar Pharmaceuticals, Inc., Boulder, CO, United States
(U.S. corporation)

#### NUMBER DATE

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention discloses high-effinity oligonucleotide ligands to human immunoglobulin E (IgE), specifically RNA ligands having the ability to bind to IgE, and the methods for obtaining such ligands. The ligands are capable of Inhibiting the interaction of IgE with its receptor. LINE COUNT: EXEMPLARY CLAIM: NUMBER OF CLAIMS: PRIMARY EXAMINER: DOCUMENT TYPE RELATED APPLN, INFO.: APPLICATION INFO: filed on 10 Jun 1991, now patented, Pat. No. US 5475096 which is a continuation-in-part of Ser. No. US 90-536428, filed on 11 Jun 1990, now Pat No. US 5496938 abandoned And a continuation-in-part of Ser. No. US 92-964624, filed on 21 Oct 1992, now patented. N: US 5629155 970513 US 94-317403 941003 (8) Utility Continuation-in-part of Ser. No. US 91-714131, Zitomer, Stephanie W. Swanson & Bratschun, L.L.C.

L14 ANSWER 15 OF 18 USPATFULL
ACCESSION NUMBER: 97:1542 USPATFULL
TITLE: expression of specific immunogens using viral
singens
INVENTOR(S): Hung, Paul P., Bryn Mawr, PA, United States
Lee, Shaw-Guang L., Villanova, PA, United States
Kalyan, Narendor K., Wayne, PA, United States
Kalyan, Narendor K., Wayne, PA, United States
Onited States (U.S. corporation)
NUMBER DATE

PATENT INFORMATION: US 5591823 970107
APPLICATION INFO: US 93-188813 931217 (8)
RELATED APPLN, INFO: Continuation-in-part of Ser. No. US 91-805105,
RELATED APPLN, INFO: Dec 1991, now abandoned
DOCUMENT TYPE: Utility

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L14 ANSWER 16 OF 18 USPATFULL
ACCESSION NUMBER: 96:70190 USPATFULL
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LINE COUNT: 1122
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NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
                                                                                                          INVENTOR(S): Ch
PATENT ASSIGNEE(S):
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                                                                                                                                                                                                                                                                                                                                                                                                                  the nucleotide sequence of an antigenic site. Corresponding chimeric peptides, expression vectors, and transformed hosts are provided as well. These peptides are useful in providing vaccines against the respective antigens and in test kits to detect the exposure to such antigens. Additionally, these peptides or their corresponding antibodies are useful in methods of treatment and prevention of the manifestations of exposure to these antigens, including immunotherapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            surface protein of an influenza A virus having five immunodominant antigenic sites, wherein a nucleotide sequence substantially the same as that which codes for a foreign epitope is inserted into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chimeric DNA fragments are provided which include a nucleotide sequence substantially the same as that which codes for the HA
                                                                                                                                                                                                                            Treating hypersensitivities with anti-IGE monoclonal antibodies which
                                                                            States (U.S. corporation)
NUMBER DATE
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20063 FC

(BASOPHIL OR BASOPHILS)

bind to IGE-expressing B cells but not basophils
Chang, Tse W., Houston, TX, United States
[GNEE(S): Tanox Biosystems, Inc., Houston, TX, United

RELATED APPLN. INFO.: Continuation in PATENT INFORMATION: PLN. INFO: Continuation-in-part of Ser. No. US 89-357483, filed on 28 May 1989, now patented, Pat. No. US \$420251 which is a continuation-in-part of Ser. No. US 88-291068, filed on 28 Dec 1988, now abandoned which is a continuation-in-part of Ser. No. US 88-2242421, filed on 29 Jul 1988, now patented, Pat. No. US 5422258 which is a continuation-in-part of Ser. No. US 87-140036, filed on 31 Dec 1987, now abandoned

DOCUMENT TYPE: Utility
PRIIMARY EXAMINER: Huzzell, Paula K.
LEGAL REPRESENTATIVE: Mirabel, Eric P.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT reactions and of reducing circulating IgE using antibodies which bind to secreted IgE and membrane-bound IgE on the surface of IgE-producing B cells but not to IgE on basophils or mast cells. The invention relates to methods of treating allergic

INVENTOR(S): Ch L14 ANSWER 17 OF 18 USPATFULL ACCESSION NUMBER: Chimeric anti-human IgE-monoclonal antibody which binds to secreted IgE and States (U.S. corporation) basophiis membrane-bound IgE expressed by IgE-expressing B cells but notto IgE bound to FC receptors on Chang, Tse-wen, Houston, TX, United States

S): Tanox Biosystems, Inc., Houston, TX, United 95:58235 USPATFULL

=> s H2

NUMBER DATE

220814 CELL 178765 CELLS 263654 CELL

(CELL OR CELLS)

(MAST(W)CELL)
332 BASOPHIL
892 BASOPHILS
993 BASOPHIL

LEGAL REPRESENTATIVE: Sughrue, Mion, Zinn, Macpeak & Seas, PLLC

Kishore, Gollamudi S.

10380 MAST 1876 MASTS 10896 MAST (MAST OR MASTS)

PATENT INFORMATION: US 5428133 950627
APPLICATION INFO: US 91-809034 911211 (7)
RELATED APPLN, INFO: Continuation of Ser. No. PLN. INFO.: Continuation of Ser. No. US 88-291068, filed on 28 Dec 1988, now abandoned which is a continuation-in-part of Ser. No. US 88-226421, filed on 29 Jul 1988 which is a

> filed on 31 Dec 1987, now abandoned
>
> OCUMENT TYPE: Utility
> PRIMARY EXAMINER: Hutzell, Paula
> LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Giulio A.
> NUMBER OF CLAIMS: 2 PATENT ASSIGNEE(S): Cell Genesys, Inc., Foster City
> States (U.S. corporation)
> The Regents of the University of California. PRIMARY EXAMINER: Hill, Jr., Robert J.
> ASSISTANT EXAMINER: Wang, Gian P.
> LEGAL REPRESENTATIVE: Rowland, Bertram I. filed on 14 Dec 1990, now abandoned DOCUMENT TYPE: Utility PATENT INFORMATION: US 5359046 941025
>
> APPLICATION INFO: US 92-988194 921209 (7)
>
> RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 90-627643, EXEMPLARY CLAIM: CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 41 Drawing Figure(s); 10 Drawing Page(s) NUMBER OF CLAIMS: EXEMPLARY CLAIM: INVENTOR(S): L14 ANSWER 18 OF 18 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. ACCESSION NUMBER: provided, where the chimeric proteins are characterized by an extracellular domain capable of binding to a ligand in a non-MHC restricted manner, a transmembrane domain and a cytoplasmic domain cell types. sequences may be used to modify lymphocytes as well as extracellular domains may be employed as receptors, where such domains may be naturally occurring or synthetic. The chimeric DNA functions relating to the signalling pathway. A wide variety of the cell, whereby the cell may be induced to carry out various Binding of ligand to the extracellular domain results in transduction of a signal and activation of a signaling pathway in capable of activating a signaling pathway. The extracellular domain and cytoplasmic domain are not naturally found together. IgE-bearing B lymphocytes but not basophils are described Chimeric antibodies which bind to unique antigenic epitopes of tgE (designated ige.b1) which are present on nematopoietic stem cells as precursors to a number of important Chimeric proteins and DNA sequence encoding chimeric proteins are Chimeric chains for receptor-associated signal transduction pathways
> Capon, Daniel J., Hillsborough, CA, United States
> Weiss, Arthur, Mill Valley, CA, United States
> Inving, Brian A., San Francisco, CA, United Oakland, CA, United States (U.S. corporation) Zsebo, Krisztina, Woodside, CA, United States GNEE(S): Cell Genesys, Inc., Foster City, CA, United Roberts, Margo R., San Francisco, CA, United continuation-in-part of Ser. No. US 87-140036 NUMBER DATE 94:93425 USPATFULL

DOCUMENT TYPE: PRIMARY EXAMINER: PATENT INFORMATION: US 5853753 981229
APPLICATION INFO: US 97-800802 970218 (8)
RELATED APPLN. INFO: Continuation of Ser. No. US 95-367128, filed on 6 PATENT ASSIGNEE(S): Dianorm G. Maierhofer GmbH Federal Republic of (non-U.S. corporation) INVENTOR(S): PRIORITY INFORMATION: DE 92-422447 920708 => d I15 1-86 ibib ab ALLERG7 三 ACCESSION NUMBER: \_15 ANSWER 1 OF 86 USPATFULL 1389860 REDUC? 11341 AMELIORAT? 65071 COMPET? (IGE OR IGES)
30464 RECEPTOR
20187 RECEPTORS (FC OR FCS) 41540 EPSILON 4 EPSILONS 41540 EPSILON 265102 INHIB? 15542 MONOCLON? 110 CHIMERIC(W) MONOCLON? (CHIMERIC OR CHIMERICS) 32647 ANTIBOD? 32647 ANTIBOD? 15542 MONOCLON? 36144 RECEPTOR 70 IGES 2600 IGE 14881 ALLERG? (RECEPTOR OR RECEPTORS)
130 IGE(W) RECEPTOR 2552 IGE 4238 CHIMERIC 4238 CHIMERICS 24 CHIMERICS 1183 CHIMERIC(W) ANTIBOD? 4238 CHIMERIC 4238 CHIMERIC (EPSILON OR EPSILONS) 99 FC.EPSILON. CHIMERIC(W) ANTIBOD? OR CHIMERIC(W) MONOCLON?) AND 86 (L2 OR BASOPHIL) AND L3 AND (ANTIBOD? OR MONOCLON? AND (INHIB? OR REDUC? OR AMELIORAT? OR COMPET?) (CHIMERIC OR CHIMERICS) (FC(W)EPSILON) Liposomes, method of preparing the same and use thereof in the preparation of drugs

Maierhofer, Gunther, Munich, Germany, Federal Jan 1995, now abandoned Republic of DE 92-4232231920925 Republic of Rottmann, Oswald, Freising, Germany, Federal NUMBER DATE NUMBER DATE Paul, Dietersheim, Germany, Federal Dianorm G. Maierhofer GmbH, Munich, Germany, 1998:162028 USPATFULL

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PATENT INFORMATION: US & APPLICATION INFO: US & DOCUMENT TYPE: Util PRIMARY EXAMINER: Le
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
1622
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APPLICATION INFO.: L
RELATED APPLN. INFO.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INVENTOR(S): Johnson, Gary L., Boulder, CO, United States PATENT ASSIGNEE(S): National Jewish Center For Immunology and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a method of directing a cellular immune response against an HIV-infected cell in a mammal involving administering to the mammal an effective amount of therapeutic cells which express a membrane-bound, proteinaceous chimeric receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIMARY EXAMINER: Budens, Robert D.
LEGAL REPRESENTATIVE: Clark & Elbing LLP
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
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Romeo, Charles, Belmont, MA, United States
Kolenus, Waldemar, Watertown, MA, United States
PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MA,
United States (U.S. corporation)
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LINE COUNT: 1895
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THE SE
                                                                                                                                                                                                                   LEGAL REPRESENTATIVE: Lahive & Cockfield, LLP; DeConti, Jr., Giulio A.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (b) an intracellular portion which is capable of signalling the
therapeutic cell to destroy the receptor-bound HIV-infected cell.
Also disclosed are cells which express the chimeric receptors and
DNA and vectors encoding the chimeric receptors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    comprising (a) an extracellular portion which includes a fragment of CD4 which is capable of specifically recognizing and binding the HIV infected cell but which does not mediate HIV infection and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mechanical energy, wherein before mixing, the lipids are present either as such or dissolved in water-miscible solvent. The invention further relates to a method of preparing such liposomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          by mixing bilayer-forming lipids containing, at least in part, unsaturated fatty-acid chains, with an aqueous solution of bile acid and/or at least one derivative thereof and supplying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and their use in the preparation of drugs.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chimeric CD4 receptor-bearing cells
): Seed, Brian, Boston, MA, United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polymerization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RMATION: US 5651828 981222
INFO: US 94-284391 940802 (8)
LN. INFO: Continuation-in-part of Ser. No. US 94-195395, filed on 14 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 92-847566,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              continuation-in-part of Ser. No. US 91-665961,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             filed on 6 Mar 1992, now abandoned which is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (U.S. corporation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Respiratory Medicine, Denver, CO, United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              filed on 7 Mar 1991, now abandoned
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                                                                                                                                                                                                                                                                                                               ↓: US 5851786 981222
US 95-534694 950927 (€)
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                                                                                                                                                                                                                                                                                                                                                   PRIMARY EXAMINER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INVENTOR(S):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOCUMENT TYPE:
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LINE COUNT: 2850
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

    Cockfield, LLP
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 28 Drawing Page(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIMARY EXAMINER: Carlson, Karen Cochra
LEGAL REPRESENTATIVE: Clark & Elbing LLP
NUMBER OF CLAIMS: 55
EXEMPLARY CLAIM: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PATENT ASSIGNEE(S): The General Hospita
United States (U.S. corporation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RELATED APPLN. INFO: Division of Ser. No. US 93-156549, filed on 22 Nov 1993 which is a continuation-in-part of Ser.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PATENT INFORMATION: US 5843672 981201 APPLICATION INFO: US 95-467603 950606 (8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PATENT ASSIGNEE(S): ImmuLogic Pharmaceuti
MA, United States (U.S. corporation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L15 ANSWER 5 OF 86 USPATFULL ACCESSION NUMBER: 1998:150
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AB The present invention relates to methods useful for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                      LEGAL REPRESENTATIVE: Hanley, Elizabeth A.; Mandragouras, Amy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        L15 ANSWER 4 OF 86 USPATFULL ACCESSION NUMBER: 1998:150
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in inflammatory responses, immune responses, allergic responses and neuronal responses, kits to perform such assays and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             stress fiber formation or focal adhesion assembly by regulating G.sub..alpha.12 and/or G.sub..alpha.13 activity in cells involved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              compounds capable of specifically regulating actin polymerization,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            are cells which express the chimeric receptors and DNA encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        methods to control disease related to such responses.
Isolated nucleic acids encoding allergens of Canis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Morgenstern, Jay P., Boston, MA, United States Konieczny, Andrzej, Belmont, MA, United States Bizinkauskas, Christine B., Dorchester, MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dog dander and uses therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    No. US 92-999712, filed on 31 Dec 1992, now
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Brauer, Andrew W., Salem, MA, United States
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        continuation-in-part of Ser. No. US 91-665961,
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GNEE(S): The General Hospital Corporation, Boston, MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Romeo, Charles, Belmont, MA, United States
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Allergenic proteins and peptides from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER DATE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Seed, Brian, Boston, MA, United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US 95-417495 950405 (8)
D.: Continuation of Ser. No. US 94-203866, filed on
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ImmuLogic Pharmaceutical Corporation, Waltham,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Carlson, Karen Cochrane
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                                             ASSISTANT EXAMINER: SULEGAL REPRESENTATIVE: BUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9
INCOMPLETED OF THE PROPERTY OF THE PR
                                                                                                                                                                                                                                                                                                                                                                        APPLICATION INFO.:
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                                                                                                                                                                                                                                                                                                                                PRIMARY EXAMINER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hawkins, Phillip R., Mountain View, CA, United
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (U.S. corporation)
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the chimeric receptors.

nited States

peptide having Can f ll activity and a predicted molecular weight of about 18,200 daltons is also disclosed. The nucleic acids can peptide having a Can f I activity and a predicted molecular weight of about 19,200 daltons is also described. A cDNA encoding a nucleic acid in a sample or for the recombinant production of peptides having a Can f I or Can f II activity. Peptides having a be used as probes to detect the presence of Can f I or Can f II for pharmaceutical administration or methods of diagnosing Can f I or Can f II activity can be used in compositions suitable familiaris, Can f I or Can f II, are disclosed. A cDNA encoding a

L15 ANSWER 6 OF 86 USPATFULL DNA encoding interleukin-4 receptors

Mosley, Bruce, Seattle, WA, United States 1998:147580 USPATFULL

chimeras

Cosman, David J., Seattle, WA, United States Park, Linda, Seattle, WA, United States Idzerda, Rejean, Seattle, WA, United States Beckmann, M. Patricia, Poulsbo, WA, United States March, Carl J., Seatlle, WA, United States Immunex Corporation, Seattle, WA, United States

NUMBER DATE

PRIMARY EXAMINER: Draper, Gamette D.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 37 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 2554
AR Manufacture. filed on 31 Oct 1988, now abandoned POCUMENT TYPE: Utility PRIMARY EXAMINER: Draper, Gamette D. vectors encoding mammalian IL-4 receptors, and processes for producing mammalian IL-4 receptors as products of cell culture, producing mammalian IL-4 receptors as products of cell culture, are disclosed. A method for suppressing an IL-4-dependent immune or inflammatory response in a mammal, including a human, by administering an effective amount of soluble IL-4 receptor (sIL-4R) and a suitable diluent or carrier. Mammalian Interleukin-4 receptor proteins, DNAs and expression I INFO: US 90-480694 900214 (7)
PLN, INFO:: Continuation-in-part of Ser. No. US 89-370924, filed on 23 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 89-326156, filed on 20 Mar 1989, now abandoned which is a continuation-in-part of Ser. No. US 89-319438, filed on 2 Mar 1989, now abandoned which is a continuation-in-part of Ser. No. US 88-265047, US 5840869 981124

Hillman, Jennifer L., San Jose, CA, United States Goli, Surya K., Sunnyvale, CA, United States Bandman, Olga, Mountain View, CA, United States

United States (U.S. corporation) Petithory, Joanne R., Fremont, CA, United States Incyte Pharmaceuticals, Inc., Palo Alto, CA

NUMBER DATE

abandoned

US 5837493 981117 US 97-788584 970123 (8) Feisee, Lila Sun-Hoffman, Lin 9 Drawing Figure(s); 7 Drawing Page(s) Billings, Lucy J.Incyte Pharmaceuticals, Inc.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. diseases associated with the expression of GAL-5H. The invention also provides diagnostic assays which utilize the polynucleotide, or fragments or the complement thereof, and antibodies also provides for use of GAL-5H and agonists, antibodles , or antagonists specifically binding GAL-5H, in the prevention and treatment of diseases associated with expression of GAL-5H. as GAL-5H) and polynucleotides which identify and encode GAL-5H. The invention also provides genetically engineered expression vectors and host cells comprising the nucleic acid sequences encoding GAL-5H and a method for producing GAL-5H. The invention Additionally, the invention provides for the use of antisense molecules to polynucleotides encoding GAL-5H for the treatment of specifically binding GAL-5H. (designated individually as GAL-5HA and GAL-5HB, and collectively The present invention provides two novel human galectins

L15 ANSWER 8 OF 86 USPATFULL ACCESSION NUMBER: NVENTOR(S): receptor antibodies Deo, Yashwant M., Audubon, PA, United States Goldstein, Joel, Edison, NJ, United States Graziano, Robert, Frenchtown, NJ, United States MBER: 1998:143654 USPATFULL
Therapeutic compounds comprised of anti-Fc

PATENT ASSIGNEE(S): States Medarex, Inc., Annandale, NJ, United States (U.S.

Somasundaram, Chezian, Allentown, PA, United

# NUMBER DATE

PRIMARY EXAMINER: Feisse, Lila
ASSISTANT EXAMINER: Bansal, Geetha
LEGAL REPRESENTATUE: Lahive & Cockfield, LLP
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1,10 ₽ PATENT INFORMATION: US 5637243 981117
APPLICATION INFO: US 96-661052 960807 (8)
RELATED APPLIC, INFO: Continuation-in-part of Ser. No. US 95-484172, LINE COUNT: NUMBER OF DRAWINGS: 49 Drawing Figure(s); 29 Drawing Page(s) DOCUMENT TYPE Multispecific multivalent molecules which are specific to an Fc receptor (FcR), and therapeutic uses and therapeutic uses and filed on 7 Jun 1995 2332 

L15 ANSWER 9 OF 86 USPATFULL
ACCESSION NUMBER: 1998:134909 USPATFULL VENTOR(S): methods for making the molecules are described. Creating novel hematopoietic cell lines by expressing altered retinoic acid receptors
Tsai, Schickwann, Redmond, WA, United States

PATENT ASSIGNEE(S): WA, United States (U.S. corporation) Collins, Steven J., Seattle, WA, United States
GNEE(S): Fred Hutchinson Cancer Research Center, Seattle,

PATENT INFORMATION: US 5830760 981103 WO 9504143 950209 APPLICATION INFO.: US 96-592383 960126 (8) WO 94-US8450 940728

NUMBER DATE

960126 PCT 371 date
960126 PCT 102(e) date
960126 PCT 102(e) date
7. Continuation-in-part of Ser. No. US 93-98242,
filed on 28 Jul 1993, now abandoned

ASSISTANT EXAMINER: Waish, Stephen
ASSISTANT EXAMINER: Pak, Michael D.
LEGAL REPRESENTATIVE: Christensen O'
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1 DOCUMENT TYPE: PRIMARY EXAMINER: Pak, Michael D. E: Christensen O'Connor Johnson & Kindness PLLC

NUMBER OF DRAWINGS: 64 Drawing Figure(s); 35 Drawing Page(s) LINE COUNT: 2875 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

> Æ less than about 10.sup.-8 M to about 10.sup.-9 M in the case of establishing neutrophilic progenitor cell lines. Addition of a retinol compound induces the latter cell line to differentiate other hematopoietic myeloid cells nucleic acid encoding a dominant negative suppressor of a retinoic acid receptor-alpha and a selectable marker, and culturing the recombinant cells in culture medium containing SCF or GM-CSF, agents allowing for selective growth of the recombinant cells, and a level of retinoic acid of by introducing into bone marrow, fetal spleen, fetal liver, or capable of differentiating into neutrophils but not into differentiating into erythroid, myeloid, and B lymphocytic lineages, and GM-CSF dependent neutrophil progenitor cell lines lympho-hematopoietic progenitor cell lines capable of monocytes, mast cells, or basophils Methods for establishing continuous SCF dependent

L15 ANSWER 10 OF 86 USPATFULL ACCESSION NUMBER: MBER: 1998:128081 USPATFULL
Method for screening for targets for

anti-inflammatory or anti-allergic

into neutrophiis

Kurosaki, Tomohiro, Fort Lee, NJ, United States
PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research,
New York, NY, United States (U.S. corporation) INVENTOR(S): agents Ravetch, Jeffrey V., New York, NY, United States

#### NUMBER DATE

PATENT INFORMATION: US 5824487 981020 APPLICATION INFO: US 95-542686 951013 (

LEGAL REPRESENTATIVE: White, John P. NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1 DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Schv APPLICATION INFO: US 95-542686 951013 (8)
RELATED APPLN. INFO: Continuation of Ser. No. US 93-52269, filed on 23 CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 44 Drawing Figure(s); 20 Drawing Page(s) antibody receptor, whose cytoplasmic domain comprising an ARH1 motif, comprising (a) obtaining cells comprising exceptors having the ARH1 motif, by Isyling the cells under conditions whereby the native complex of the receptor having the ARH1 motif capable of specifically binding to an activated antibody receptor, whose cytoplasmic domain comprising an ARH1 motif. This invention further provides a method for identifying a cellular molecule capable of being a target for designing drugs for autoimmune disease, inflammation or allergy which molecule with the motif, (b) isolating the complex formed in step (a), and (c) testing the complex for biochemical activities, thereby identifying the cellular molecule capable of being a comprises (a) contacting a cell lysate with a molecule having a motif of amino acid sequence, AENTITYSLLKHP under the conditions permitting formation of a complex between the cellular target and the cellular protein is preserved;(c) isolating the complex; and (d) testing the associated receptor and the protein for biochemical activities, thereby identifying the cellular protein This invention provides a method for identifying a cellular protein capable of specifically binding to an activated target for designing drugs for autoimmune disease, inflammation or Apr 1993, now abandoned Schwadron, Ronald B.

PATENT ASSIGNEE(S): INVENTOR(S): L15 ANSWER 11 OF 86 USPATFULI CCESSION NUMBER: DNA spacer regulatory elements responsive to cytokines and methods for their use Seidel, H. Martin, San Diego, CA, United States
Lamb, I. Peter, San Diego, CA, United States Ligand Pharmaceuticals, Inc., San Diego, CA 1998:119039 USPATFULL

United States (U.S. corporation)

NUMBER

DATE

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides oligonucleotide sequences comprising DNA regulatory elements of the general sequence TTN sub.X AA that bind activated transcriptional regulatory proteins in response to signaling molecules, such as cytokines. Further, the present invention also provides DNA constructs comprising the oligonucleotide sequences, cells transferded with the DNA constructs, and methods of using the DNA constructs and NUMBER OF DRAWINGS: LINE COUNT: 2831 PRIMARY EXAMINER: Kemmerer, Elizabeth C.
LEGAL REPRESENTATIVE: Dulak, Norman C.; Thampoe, Immac J.
NUMBER OF CLAIMS: 1

EXEMPLARY CLAIM: 1 APPLICATION INFO: US 95-488735 950606 (8)

RELATED APPLN. INFO: Division of Ser. No. continuation of 1 Apr. 1994, now abandoned which is a continuation of Ser. No. US 93-27601, filed on 5 Mar 1983, now NUMBER OF DRAWINGS: NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1,10 PATENT INFORMATION: US 5814517 980929
APPLICATION INFO.: US 4107799 950327 (6)
RELATED APPLN INFO.: Continuation-in-part of Ser. INVENTOR(S): L15 ANSWER 12 OF 86 USPATFULL
ACCESSION NUMBER: 1998:112067 USPATFULL PRIMARY EXAMINER: DOCUMENT TYPE: DOCUMENT TYPE: PATENT INFORMATION: PATENT ASSIGNEE(S): LINE COUNT: ASSISTANT EXAMINER: CAS INDEXING IS AVAILABLE FOR THIS PATENT LEGAL REPRESENTATIVE: invention include native human and murine IL-4s, muteins thereof, and nucleic acids which are effectively homologous to disclosed cDNAs, and/or which are capable of coding for mammalian IL-4s and Mammalian proteins and muteins thereof, designated interleukin-ds (IL-4s), are provided which exhibit both B cell growth factor activity and T cell growth factor activity. Compounds of the transfected cells to provide for the controlled expression of structural genes, for the detection and recovery of transcriptional regulatory proteins, and for measuring the ability of compounds to act as agonist and antagonists of gene abandoned which is a continuation-in-part of Ser. No. US 92-854771, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. US 90-615902, filed on 20 Nov 1990, now abandoned which is a division of Ser. No. US 86-908215, filed on 17 Sep 1986, now patented, Pat No. US 5017891 which is a continuation-in-part of Ser. No. US 86-88153, filed on 3 Jul 1988, now polypeptide fragments
): Lee, Frank, Palo Alto, CA, United States
Yokota, Takashi, Palo Alto, CA, United States on 14 Apr 1994, now abandoned continuation-in-part of Ser. No. US 85-799668, filed on 19 Nov 1985, now abandoned No. US 86-843958, filed on 25 Mar 1986, now patented, Pat. No. US 5552304 which is a Arai, Ken-ichi, Palo Alto, CA, United States Mosmann, Timothy, Atherton, CA, United States Rennick, Donna, Los Altos, CA, United States SNEE(S): Schering Corporation, Kenilworth, NJ, United States (U.S. corporation) abandoned which is a continuation-in-part of Ser. NUMBER DATE Fused polypeptides comprising interleukin-4 Utility Otility Chambers, Jasemine C. US 5807996 980915 Priebe, Scott D. 6 Drawing Figure(s); 2 Drawing Page(s) Elmer, J. Scott; Respess, William L. 33 Drawing Figure(s); 24 Drawing Page(s) ĕ 228935, filed

L15 ANSWER 13 OF 86 USPATFULL

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09/090,375
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PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, INVENTOR(S): ACCESSION NUMBER: Isolatic and subunit of the high affinity receptor for Kinet, Jean-Pierre, Bethesda, MD, United States Jouvin, Marie-Helene, Bethesda, MD, United States immunoglobulin E Washington, DC, United States (U.S. government) MBER: 1998:112061 USPATFULL Isolation, characterization, and use of the human

# NUMBER DATE

PATENT INFORMATION: US 550/500 224 (8)
APPLICATION INFO: US 94-2018/9 940224 (8)
APPLICATION INFO: Continuation-in-part of Ser. No. US 92-869933, LEGAL REPRESENTATIVE: Klarquist Sparkman Campbell Leigh & Whinston PRIMARY EXAMINER: Ctility Ulm, John

NUMBER OF CLAIMS: EXEMPLARY CLAIM: IMBER OF DRAWINGS: σ 37 Drawing Figure(s); 29 Drawing Page(s)

AB The present invention relates to nucleic acid sequences, encoding the present invention relates to nucleic acid sequences, encoding the present invention relates to nucleic acid sequences, encoding the present invention of the human high amino acid sequences of the .beta, and subunit of the human high affinity receptor for immunoglobulin E, and for amino acid sequences of the subunit. A segment of the amino acid sequence containing an antigen recognition activation motif (ARAM) that exhibits different functions than other ARAMS, including that of cell simultaneously. Aspects of the invention are methods and compositions to inhibit the function of the human beta subunit, thereby treating or preventing allergic expressing cDNA for its a, .beta., and .gamma. subunits in a host invention further relates to a method of producing the receptor by the ARAM-gamma. subunit of Fc.epsilon.Rl. The

L15 ANSWER 14 OF 86 USPATFULL ACCESSION NUMBER: 1998:8865 ij allergen-binding cells for diagnosis of hypersensitivity Isolation and characterization of 1998:88655 USPATFULL

INVENTOR(S) Republic of Radbruch, Andreas, Cologne, Germany, Federal Federal Republic of Miltenyi, Stefan, Bergisch Gladbach, Germany, irsch, Johannes, Cologne, Germany, Federal

PATENT ASSIGNEE(S): Miltenyi Biotec. GmbH, Bergisch Gladbach, Germany, Federal Republic of (non-U.S. corporation)

# NUMBER DATE

US 5786161 980728

DOCUMENT TYPE: Utility
PRIMARY EXAMINEE: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Cooley Godward LLP
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 18 PATENT INFORMATION:
APPLICATION INFO.: U CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 9 Drawing Figure(s); 4 Drawing Page(s) allergen-specific cells are enriched from a complex cell population, e.g. a patient blood sample. The percentage of blood Methods and compositions are provided for the diagnosis of allergen hypersensitivity in a patient. Rare, 836 US 96-660035 960606 (8)

0.01%. The allergen-specific cell population is enriched by magnetic cell sorting. In normal blood, the allergen binding cells are primarily B-cells expressing CD19 and CD21. In

cells that bind to a particular allergen is less than

blood from allergic patients, an additional population

of effector cells, e.g. basophilic granulocytes is labeled by the

INVENTOR(S): Kinet, Jean Pierre, Bernesua, mu, United States of America as represented by PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government) H L15 ANSWER 15 OF 86 USPATFULL ACCESSION NUMBER beta subunit of the high affinity receptor for immunoglobulin E MBER: 1998:72429 USPATFULL Isolation characterization, and use of the human

# NUMBER DATE

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Klarquist Sparkman Campbell Leigh & Whinston, PATENT INFORMATION: APPLICATION INFO.: US 92-869933 920416 (7) Utility Ē US 5770396 980623 , Sen

LINE COUNT: 2759
CAS INDEXING IS AVAILABLE FOR THIS PATENT. 8 NUMBER OF DRAWINGS: EXEMPLARY CLAIM: NUMBER OF CLAIMS: amino acid sequences of the alpha, beta, and gamma subunits of the high affinity receptor for immunoglobulin E, and for amino acid sequences of the subunits. The invention further relates to a method of producing the receptor by expressing cDNA for its alpha, beta, and gamma subunits in a host cell The present invention relates to nucleic acid sequences, encoding 8 60 Drawing Figure(s); 52 Drawing Page(s)

L15 ANSWER 16 OF 86 USPATFULL
ACCESSION NUMBER: 1998:68996 USPATFULL hematopoietic factors Compositions of soluble C-kit ligand and

simultaneously. Aspects of the invention are methods and compositions to inhibit the function of the human beta

subunit, thereby treating or preventing allergic

Buck, Jochen, New York, NY, United States
Moore, Malcolm A.S., New York, NY, United States
Nooka, Karl, Harvard, MA, United States
PATENT ASSIGNEE(S): Stoan-Kettering institute for Cancer Research,
New York, NY, United States (U.S. corporation) **INVENTOR(S)** Besmer, Peter, New York, NY, United States

# NUMBER DATE

PATENT INFORMATION: US 5767074 980616
APPLICATION INFO: US 94-341456 941117 (8)
RELATED APPLIN INFO: Continuation of Ser. No. US 92-873962, filed on

PRIMARY EXAMINER: Carls filed on 27 Aug 1990, now abandoned continuation-in-part of Ser. No. US 90-573483 filed on 5 Oct 1990 which is a continuation-in-part of Ser. No. US 90-594306, 23 Apr 1992, now abandoned which is a

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A pharmaceutical composition which comprises the c-kit tigand (KL) purified by applicants or produced by applicants recombinant methods in combination with other hematopoietic factors and a pharmaceutically acceptable carrier is provided as well as methods of treating patients which comprise administering to the patient the pharmaceutical composition of this invention. This invention provides combination therapies using c-kit ligand (KL) and a purified c-kit ligand (KL) polypoptide, or a soluble fragment thereof and other hematopoietic factors. It also provides methods LEGAL REPRESENTATIVE: White, John P. NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 71 Drawing Figure(s); 45 Drawing Page(s) LINE COUNT: 3560

> antagonist may also be a small molecule. Antisense nucleic acids to KL as therapeutics are also described. Lastly, compositions and germ cells, mast cells and melanocytes methods are described that take advantage of the role of KL in therapy. A mutated KL antagonist is also described. Such an and compositions for ex-vivo use of KL alone or in combination

THE. ACCESSION NUMBER: L15 ANSWER 17 OF 86 USPATFULL Use of interleukin-4 receptors to inhibit 1998:68988 USPATFULL

INVENTOR(S): biological responses mediated by interleukin.4
):
Mosley, Bruce, Seattle, WA, United States
Cosman, David J. Seattle, WA, United States
Park, Linda, Seattle, WA, United States Beckmann, M. Patricia, Poulsbo, WA, United States March, Carl J., Seattle, WA, United States Idzerda, Rejean, Seattle, WA, United States

PATENT ASSIGNEE(S): (U.S. corporation) Immunex Corporation, Seattle, WA, United States

# NUMBER DATE

RELATED APPLN. INFO: Division of Ser. No. US 93-94669, filed on 20 Jul 1993, now patented, Pat. No. US 5599905 which is a division of Ser. No. US 90-480694, filed on 14
Feb 1990 which is a continuation-in-part of Ser. No. US 89-370924, filed on 23 Jun 1989, now abandoned which is a continuation-in-part of Ser. PATENT INFORMATION: APPLICATION INFO.: U abandoned which is a continuation-in-part of Ser No. US 88-265047, filed on 31 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 89-319438, filed on 2 Mar 1989, now No. US 89-326156, filed on 20 Mar 1989, now US 95-466324 950606 US 5767065 980616

DOCUMENT TYPE: Utilit
PRIMARY EXAMINER: Dr
LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 37 Drawing Figure(s); 21 Drawing Page(s) LINE COUNT: 2668 pandoned Utility 2 Draper, Gamette D. E: Anderson, Kathryn A.; Wight, Christopher L.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Mammalian interleukin-4 receptor proteins find use in Inhibiting biological activities of IL-4. A method for suppressing an IL-4-dependent immune or inflammatory response in a mammal, including a human, by administering an effective amount of soluble IL-4 receptor (sIL-4R) and a suitable diluent or carrier.

L15 ANSWER 18 OF 86 USPATFULL ACCESSION NUMBER: 1998:4487 Sequence-directed DNA-binding molecules 1998:44877 USPATFULL

INVENTOR(S): compositions and methods States Edwards, Cynthia A., Menlo Park, CA, United

Fry, Kirk E., Palo Alto, CA, United States Cantor, Charles R., Boston, MA, United States

Andrews, Beth M., Maynard, MA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

# NUMBER DATE

APPLICATION INFO.: ( US 95-476876 950607 US 5744131 980428

RELATED APPLN. INFO.: Division of Ser. No. US 92-989783, filed on 23 bec 1992 which is a continuation-in-part of Ser. No. US 91-725618, filed on 27 Jun 1991, now

DOCUMENT TYPE:

PRIMARY EXAMINER: ASSISTANT EXAMINER: Zitomer, Stephanie W

LEGAL REPRESENTATIVE: Fabian, Gary R.; Stratford, Carol A.; Dehlinger,

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NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
                                         PATENT ASSIGNEE(S):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF DRAWINGS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAS INDEXING IS AVAILABLE FOR THIS PATENT.
                                                                                                                                                                                                                                                          INVENTOR(S):
                                                                                                                                                                                                                                                                                                                                                                                                                            _15 ANSWER 19 OF 86 USPATFULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      libraries of synthetic or biological compounds for their ability to bind specific DNA test sequences. The assay is also useful for determining the sequence specificity and relative DNA-binding affinity of DNA-binding molecules for any particular DNA sequence. Also described herein are potential applications of the assay, including: 1) the detection of lead compounds or new drugs via the mass screening of libraries of synthetic or biological compounds (i.e., fermentation broths). 2) the design of sequence-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA-binding drugs comprised of homo- or hetero-meric subunits of molecules for which the sequence specificity was determined using the assay, and 3) the use of molecules for which sequence
                                                                                                                                                                                                                                                                                                                                                                             CESSION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          macromolecular polymers to nucleic acid sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    specificity was determined using the assay as covalently attached moieties to aid in the binding of nucleic acid or other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention defines an assay useful for screening
                                                                                                                                                                                                                                                                                     Sequence-directed DNA-binding molecules compositions and methods
United States (U.S. corporation)
                                                                          Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States
                                                                                                                                                                                                                States
                                                                                                                                                                  Fry, Kirk E., Palo Alto, CA, United States
                                                                                                                                                                                                                                                     Edwards, Cynthia A., Menlo Park, CA, United
                                                                                                                                                                                                                                                                                                                                                                                  1998:39383 USPATFULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            48 Drawing Figure(s); 33 Drawing Page(s)
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NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWNINGS: DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Guzo, David
ASSISTANT EXAMINER: Brusca, Joh
LEGAL REPRESENTATIVE: Fabian, Gi APPLICATION INFO: US 95-475221 950607 (8)
RELATED APPLIN. INFO: Division of Ser. No. US 92-996783, filed on 23
Dec 1992 which is a continuation-in-part of Ser.
No. US 91-723618, filed on 27 Jun 1991, now PATENT INFORMATION: NUMBER DATE √: US 5738990 980414 US 95-475221 950607 ( Genelabs Technologies, Inc., Redwood City, CA, Brusca, John S. Fabian, Gary R.; Stratford, Carol A.; Dehlinger

AS INDEXING IS AVAILABLE FOR THIS PATENT to bind specific DNA test sequences. The assay is also useful for determining the sequence specificity and relative DNA-binding affinity of DNA-binding molecules for any particular DNA sequence. The present invention defines an assay useful for screening libraries of synthetic or biological compounds for their ability Also described herein are potential applications of the assay, including: 1) the detection of lead compounds or new drugs via the mass screening of libraries of synthetic or biological compounds (i.e., farmentation broths); 2) the design of sequence-specific DNA-binding drugs comprised of homo- or hetero-meric subunits of macromolecular polymers to nucleic acid sequences. specificity was determined using the assay as covalently attached moieties to aid in the binding of nucleic acid or other molecules for which the sequence specificity was determined using the assay, and 3) the use of molecules for which sequence 5040 48 Drawing Figure(s); 33 Drawing Page(s)

L15 ANSWER 20 OF 86 USPATFULL ACCESSION NUMBER: 1998:2507: TITLE: Screening assay for the state of the state INVENTOR(S): molecules MBER: 1998:25075 USPATFULL
Screening assay for the detection of DNA-binding Edwards, Cynthia A., Menlo Park, CA, United

Cantor, Charles R., Boston, MA, United States Andrews, Beth M., Watertown, MA, United States

Turin, Lisa M., Berketey, CA, United States
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation)

#### NUMBER DATE

PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO. filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 91-723618, US 93-123936 930917 (8 Continuation-in-part of Ser. No. US 92-996783, US 5726014 <u>@</u>

filed on 27 Jun 1891, now abandoned DOCUMENT TYPE: Utility PRIMARY EXAMINER: Jones, W. Garv ASSISTANT EXAMINER: Atzel, Amy

LEGAL REPRESENTATIVE:

Fabian, Gary R.; Stratford, Carol A.; Dehlinger,

NUMBER OF CLAIMS: EXEMPLARY CLAIM: CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 72 Drawing Figure(s); 47 Drawing Page(s) 6

The present invention defines a DNA: protein-binding assay useful for screening libraries of synthetic or biological compounds for their ability to bind DNA test sequences. The assay is versatile in that any number of test sequences can be tested by placing the test sequence adjacent to a defined protein binding screening sequence. Binding of molecules to these test sequence changes the binding characteristics of the protein molecule to its cognate binding sequence. When such a molecule binds the test sequence the equilibrium of the DNA:protein complexes is disturbed, generating changes in the concentration of free DNA probe. Numerous exemplary target test sequences (SEQ ID NO:1 to SEQ ID NO:000) are set forth. The assay of the present invention is also useful to characterize the preferred binding sequences of any selected DNA-binding molecule.

L15 ANSWER 21 OF 86 USPATFULL
ACCESSION NUMBER: 1898:14915 USPATFULL Antibodies that are immunoreactive with

INVENTOR(S): Cosman, David J., Seattle, WA, United States Park, Linda, Seattle, WA, United States interleukin-4 receptors Beckmann, M. Patricia, Poulsbo, WA, United States March, Carl J., Seattle, WA, United States Mosley, Bruce, Seattle, WA, United States

PATENT ASSIGNEE(S): (U.S. corporation) Idzerda, Rejean, Seattle, WA, United States Immunex Corporation, Seattle, WA, United States

### NUMBER DATE

PATENT INFORMATION: US 5717072 980210
APPLICATION INFO: US 95-465169 950605 (8)
RELATED APPLN, INFO: Division of Ser. No. US 93-94689, filed on 20 Jul abandoned which is a continuation-in-part of Ser. No. US 89-326158, filed on 20 Mar 1989, now abandoned which is a continuation-in-part of Ser. No. US 89-319438, filed on 2 Mar 1989, now a division of Ser. No. US 90-480694, filed on 14 Feb 1990 which is a continuation-in-part of Ser. No. US 89-370924, filed on 23 Jun 1989, now No. US 88-265047, filed on 31 Oct 1988, now abandoned which is a continuation-in-part of Ser. 1993, now patented, Pat. No. US 5599905 which is

DOCUMENT TYPE: U
PRIMARY EXAMINER: ASSISTANT EXAMINER: NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 2563
CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 38 Drawing Figure(s); 22 Drawing Page(s) Mammalian antibodies that are immunoreactive with Reeves, Julie E.

> antibodies that are immunoreactive with IL-4 receptors. A method for suppressing an IL-4-dependent immune or inflammatory response in a mammal, including a human, involves administering an effective amount of soluble IL-4 receptor (sIL-4R) and a suitable encoding mammalian IL-4 receptors, and processes for producing mammalian IL-4 receptors as products of cell culture, as well as Interleukin-4 receptor proteins, DNAs and expression vectors

INVENTOR(S): ACCESSION NUMBER: 1998:14634 USPATFULL DNA-binding molecules States Method of constructing sequence-specific Edwards, Cynthia A., Menlo Park, CA, United

Cantor, Charles R., Boston, MA, United States Andrews, Beth M., Watertown, MA, United States PATENT ASSIGNEE(S). Genelabs Technologies, Inc., Redwood City, CA, United States (U.S. corporation) Fry, Kirk E., Palo Alto, CA, United States

# NUMBER DATE

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention defines an assay useful for screening libraries of synthetic or biological compounds for their ability to bind specific DNA test sequences. The assay is also useful for determining the sequence specificity and relative DNA-binding affinity of DNA-binding molecules for any particular DNA sequence. Also described herein are potential applications of the assay, including: 1) the detection of fead compounds or new drugs via the mass screening of libraries of synthetic or biological compounds (i.e., termentation broths); 2) the design of sequence-specific DNA-binding drugs comprised of homo- or hetero-metric subunits of molecules for which the sequence-specificity was determined using the assay; and 3) the use of molecules for which sequence RELATED APPLN. INFO: Division of Ser. No. US 92-996783, filed on 23
Dec 1992 which is a continuation-in-part of Ser.
No. US 91-723618, filed on 27 Jun 1891, now NUMBER OF DRAWINGS: LINE COUNT: 4929 NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1 LEGAL REPRESENTATIVE: Fabian, Gary R.; Stratford, Carol A.; Dehlinger, PRIMARY EXAMINER: ASSISTANT EXAMINER: APPLICATION INFO: DOCUMENT TYPE: specificity was determined using the assay as covalently attached moieties to aid in the binding of nucleic acid or other bandoned US 95-484499 950607 (8) Çiii V Jones, W. Gary Atzel, Amy US 5716780 980210 48 Drawing Figure(s); 33 Drawing Page(s)

PATENT ASSIGNEE(S): INVENTOR(S): L15 ANSWER 23 OF 86 USPATFULL ACCESSION NUMBER: 1998:1188 States (U.S. corporation) Lowe, John, Daly City, CA, United States Jardieu, Paula, San Francisco, CA, United States Methods for diagnosis of allergy
Wai Fei, David Tai, Belmont, CA, United States NUMBER Genentech, Inc., South San Francisco, CA, United 1998:11885 USPATFULL DATE

macromolecular polymers to nucleic acid sequences.

PATENT INFORMATION: US 5714338 980203

WO 9516203 950615 APPLICATION INFO.: US 95-393014 950227 (8) WO 94-US14282941209

950227 PCT 102(e) date
RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 93-165436,
filed on 10 Dec 1993, now abandoned
DOCUMENT TYPE: Utility

NUMBER OF DRAWINGS: 20 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 2478 NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1 PRIMARY EXAMINER: ASSISTANT EXAMINER: L15 ANSWER 24 OF 86 USPATFULL LEGAL REPRESENTATIVE: Love, Richard B.
NUMBER OF CLAIMS: 15 CAS INDEXING IS AVAILABLE FOR THIS PATENT the presence of the IgE antagonist to the release of the pharmacological mediator produced by host cells sensitized with patient serum in the absence of the IgE antagonist. Fc.epsilon.Rl subunit that is capable of Provided are methods for the diagnosis of allergic disease wherein IgE specific for an allergen of interest is detected in a patient serum sample by using the patient serum serum sample by comparing the release of the pharmacological mediator produced by host cells sensitized with patient serum in challenging the sensitized host cells with the allergen of interest, and determining the presence or absence of IgE mediating the host cells release of a pharmacological mediator antagonist a mast cell or basophil sample to sensitize in the presence or absence of an IgE specific to the allergen of interest in the patient upon induction with patient serum and allergen, host genetically engineered to display surface expression of a Chan, Christina Y.
VanderVegt, F. Pierre

INVENTOR(S): ACCESSION NUMBER: action Lamb, I. Peter, San Diego, CA, United States Chan, Shin-Shay Tian, San Diego, CA, United MBER: 1998:9325 USPATFULL
Methods for detecting modulators of cytokine Seidel, H. Martin, San Diego, CA, United States

PATENT ASSIGNEE(S): Ligand Pharmaceuticals, Inc., San Diego, CA, United States (U.S. corporation)

#### NUMBER DATE

ASSISTANT EXAMINER: Merz, Prema
LEGAL REPRESENTATIVE: Elmer, J. Scott
NUMBER OF CLAIMS: 1

EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 1887 PRIMARY EXAMINER: APPLICATION INFO PATENT INFORMATION: CAS INDEXING IS AVAILABLE FOR THIS PATENT. US 95-411020 950327 (8) Ulm, John US 5712094 980127

The present invention provides DNA constructs that contain oligonucleotide sequences comprising DNA regulatory elements of the general sequence TTN.sub.x AA that bind activated transcriptional regulatory proteins in response to signaling molecules, such as cytokines, an operably linked promoter and operably linked heterologous gene. The present invention also provides host cells transfected with such DNA constructs, as well as methods for measuring the ability of compounds to act as agonists and antagonists of gene transcription utilizing these DNA constructs and transfected host cells.

L15 ANSWER 25 OF 86 USPATFULL ACCESSION NUMBER: 1998;7181 transducer Nucleic acid encoding an interleukin 4 signal 1998:7181 USPATFULL

INVENTOR(S): Hou, Jinzhao, South San Francisco, CA, United Jnited States McKnight, Steven L., South San Francisco, CA,

PATENT ASSIGNEE(S): States (U.S. corporation) Tularik Inc., South San Francisco, CA, United

# NUMBER DATE

PATENT INFORMATION: US 5710266 980120

CAS INDEXING IS AVAILABLE FOR THIS PATENT. EXEMPLARY CLAIM: NUMBER OF CLAIMS: 3 ASSISTANT EXAMINER: DOCUMENT TYPE: PRIMARY EXAMINER: APPLICATION INFO: U IMPO: US 97.781890 970105 (6)
PLN INFO: Division of Ser. No. US 94-276099, filed on 15
Jul 1994, now patented, Pat No. US 5891825 which
is a continuation-in-part of Ser. No. US 94-269604, filed on 5 Jul 1994, now abandoned Utility Vility Ulm, John Mertz, Prema Osman, Richard Aron

antibodies. The disclosed pharmaceutical screening methods are particularly suited to high-throughput screening where one or nucleic acids encoding such peptides find therapeutic uses. The subject compositions include IL-4 Stat and IL-4 receptor proteins, portions thereof, nucleic acids encoding them, and specific portions thereof, nucleic acids encoding them, and specific more steps are performed by a computer controlled electromechanical robot comprising an axial rotatable arm. The invention provides methods and compositions for identifying pharmacological agents useful in the diagnosis or treatment of disease associated with the expression of a gene modulated by an interleukin 4 signal transducer and activator of transcription, IL-4 Stat IL-4 Stat peptides and IL-4 receptor peptides and

PATENT ASSIGNEE(S): 501 Research Corp Kingdom (non-U.S. corporation) INVENTOR(S): ACCESSION NUMBER: L15 ANSWER 26 OF 86 USPATFULL Gould, Hannah Jane, London, England Helm, Birgit Anna, Loughton, England Marsh, Philip John Henry Benedict, London, Immunoglobulin E competitor 501 Research Corporation Limited, London, United 97:112584 USPATFULL

# NUMBER DATE

PATENT INFORMATION: APPLICATION INFO.: ( RELATED APPLN. INFO .: 17 Dec 1992, now abandoned which is a continuation of Ser. No. US 89-392528, filed on 7 Aug 1989, now abandoned N: US 5693758 971202 US 95-454605 950531 (8) O.: Continuation of Ser. No. US 92-993970, filed on

#### NUMBER DATE

LEGAL REPRESENTATIVE: Johnson, Nancy A
LEGAL REPRESENTATIVE: Nixon & Vanderhye P.C.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF COMMERCE OF CLAIM: 1 PRIMARY EXAMINER: ASSISTANT EXAMINER: PRIORITY INFORMATION:
DOCUMENT TYPE: U CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: of the core sequence to compete with native IgE for the low affinity receptor sites on human cells. The polypeptide may be produced synthetically or by expression from Escherichia coli containing a plasmid having a DNA segment coding for the 547 of the epsilon heavy chain of IgE as set out in Table V herein, which also shows the corresponding DNA sequence coding therefor. Such a polypeptide may also include additional short sequences at the beginning and/or end of the core sequence which are physiologically harmless and do not contribute to the ability corresponds to amino acids 340 to 439 of the epsilon heavy chain of IgE. A particularly preferred polypeptide competitor has a sequence of amino acids corresponding to amino acids 340 to A polypeptide compettor or analogue for human immunoglobulin E (gE) low affinity sites comprises a polypeptide which has a sequence of amino acid which has a sequence of amino acid which has a sequence of acids which is shown in Table I. This amino acid sequence Ctility Feisee, Lila GB 87-27045 871119 4 Drawing Figure(s); 3 Drawing Page(s)

₽

Cantor, Charles R., Boston, MA, United States
Andrews, Beth M., Maynard, MA, United States(4)
PATENT ASSIGNEE(S): Genelabs Technologies, Inc., Redwood City, CA, INVENTOR(S): L15 ANSWER 27 OF 86 USPATFULL
ACCESSION NUMBER: 97:112300 USPATFULL of a DNA-binding molecule United States (U.S. corporation) Fry, Kirk E., Palo Alto, CA, United States States Method of ordering sequence binding preferences Edwards, Cynthia A., Menlo Park, CA, United

# NUMBER DATE

PRIMARY EXAMINER: Zitomer, Stephanie W.
ASSISTANT EXAMINER: Attel, Amy
LEGAL REPRESENTATIVE: Fabian, Gary R.; Stratford, Carol A.; Dehlinger, APPLICATION INFO.: DISCLAIMER DATE: DOCUMENT TYPE: RELATED APPLN. INFO.: PATENT INFORMATION: Peter J filed on 27 Jun 1991, now abandoned US 92-996783 921223 20110426 Continuation-in-part of Ser. No. US 91-723618, US 5693463 971202

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention defines an assay useful for screening libraries of synthetic or biological compounds for their ability to bind specific DNA test sequences. The assay is also useful for determining the sequence specificity and relative DNA-binding affinity of DNA-binding molecules for any particular DNA sequence. Also described herein are potential applications of the assay, including: 1) the detection of lead compounds or new drugs via the mass screening of tibraries of synthetic or biological compounds (i.e., fermentation broths); 2) the design of sequence-specific DNA-binding drugs comprised of homo- or hetero-meric subunits of molecules for which the sequence specificity was determined using the assay, and 3) the use of molecules for which sequence specificity was determined using the safety as covalently attached molecules to aid in the binding of nucleic acid or other molecules for the sequence specificity was determined using the assay as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety as covalently attached molecules for the sequence specificity was determined using the safety and safety attached molecules for the sequence specificity was determined using the safety and safety attached molecules for the safety attached the safety attached the safety attached the sa NUMBER OF DRAWINGS: 48 Drawing Figure(s); 33 Drawing Page(s) LINE COUNT: 4908 NUMBER OF CLAIMS: EXEMPLARY CLAIM: macromolecular polymers to nucleic acid sequences ω

INVENTOR(S): Gold, Larry, Boulder, CO, United States
PATENT ASSIGNEE(S): NeXstar Pharmaceuticals, Inc., Boulder, CO, L15 ANSWER 28 OF 86 USPATFULL
ACCESSION NUMBER: 97:104615 USPATFULL High-affinity oligonucleotide ligands to immunoglobulin E (IgE) United States (U.S. corporation) States asset, Diane, Boulder, CO, United States Wiegand, Torsten Walter, Boulder, CO, United

# NUMBER DATE

PATENT INFORMATION: US 5686592 971111

APPLICATION INFO: US 95-471985 950606 (8)

PRIMARY EXAMINER: Zitomer, Stephanie W.
LEGAL REPRESENTATIVE: Swanson & Bratschun LLC
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1 RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 91-714131, filed on 10 Jun 1991, now patented, Pat No. US 5475098 which is a continuation-in-part of Ser. No. US 90-536428, filed on 11 Jun 1990, now abandoned And Ser. No. US 92-984524, filed on 21 Oct 1992, now patented, Pat No. US 5496398 And Ser. No. US 94-317403, filed on 3 Oct 1994 DOCUMENT TYPE:

CAS INDEXING IS AVAILABLE FOR THIS PATENT. This invention discloses high-affinity oligonucleotide ligands to

such ligands. The ligands are capable of inhibiting the interaction of IgE with its receptor. human Immunoglobulin E (IgE), specifically RNA and ssDNA ligands having the ability to bind to IgE, and the methods for obtaining

L15 ANSWER 29 OF 86 USPATFULL ACCESSION NUMBER: monoclonal antibodies for Allergen-specific human IgA 97:86732 USPATFULL

PATENT ASSIGNEE(S) INVENTOR(S) mucosal administration States (U.S. corporation) Chang, Tse Wen, Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United

NUMBER DATE

PATENT INFORMATION: RELATED APPLN. INFO.: PLN. INFO.: Continuation-in-part of Ser. No. US 92-994126, filed on 21 Dec 1992, now abandoned US 94-263258 940621 (8) US 5670626 970923

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Scheiner, Toni R.
PSAL REPRESENTATIVE: Mirabel, Eric P.
MBER OF CLAIMS: 2
EMPLARY CLAIM: 1,2

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Disclosed are pharmaceutical preparations containing human monoclonal IgA antibodies specific for major allergenic proteins found in ragweed, house dust mites,

physiological compatible polymer backbones or microbeads and a plurality of covalently conjugated allergen-specific and cat and dog dander. Also disclosed are constructs comprising

allergenic proteins mentioned above. Also disclosed are binding molecules. Such binding molecules are IgG or IgA, or their F(ab), sub. 2, Fab, or Fv fragments, specific to the major

allergenic molecules, to which the patient is sensitized, asthma, or conjunctivitis by applying a pharmaceutical preparation containing the antibodies specific for the methods for treating a patient with allergic rhinitis,

to the patient's affected mucosal tissues, such as the nasal

linings, the respiratory tract, or the eyes.

ACCESSION NUMBER: Method ACCESSION NUMBER: 97:73454 USPATFULL Methods of identifying patients having an altered

INVENTOR(S): immune status Young, Howard A., Gaithersburg, MD, United States Longo, Dan L., Kensington, MD, United States Ghosh, Paritosh, Frederick, MD, United States Ochoa, Augusto C., Frederick, MD, United States

PATENT ASSIGNEE(S): the Department of Health and Human Services, Washington, DC, United States (U.S. government) Biomira USA Inc., Cranbury, NJ, United States Neville, Mary, Jamesburg, NJ, United States
3NEE(S): The United States of America as represented by Robb, Richard, Princeton Junction, NJ, United

NUMBER DATE

(U.S. corporation)

EXEMPLARY CLAIM: PRIMARY EXAMINER: Saunders, David LEGAL REPRESENTATIVE: Foley & Lardner NUMBER OF CLAIMS: 2 PATENT INFORMATION:
APPLICATION INFO:
1 DOCUMENT TYPE: US 5658744 970819 US 94-277299 940722 (8) Utility √

LINE COUNT: Methods of identifying a patient having an altered immune status involve determining an immune status index for the patient and comparing it to the immune status index in healthy individuals. In general, an immune status index is the ratio of the amount of a protein that varies significantly in a patient with an altered 1803

> and autoimmunity, as well as in assessing the immune status of a gradient following density gradient centrifugation are also BRM, or the pattern of distribution of T lymphocytes in a density proteins, the pattern of protein binding to an oligonucleotide probe that comprises the protein binding region of a gene for a ratio of cytoplasmic to nuclear levels of polynucleotide binding addition, the ratio of a TH-1-type BRM to a TH-2-type BRM, the binding proteins or biological response modifiers (BRM). In substantially invariant in both healthy and immune-altered individuals. Variable proteins can be TCR subunit proteins, T immune status to the amount of another protein that is patient undergoing organ transplant. identifying patients exhibiting immunosuppression, hyperimmunity suitable as an immune status index. The methods are useful in lymphocyte signal transduction pathway proteins, polynucleotide

ACCESSION NUMBER: L15 ANSWER 31 OF 86 USPATFULL 97:70719 USPATFULL

lgE antagonists Method of treatment of parasitic infection using

INVENTOR(S): Amiri, Payman, San Francisco, CA, United States Haak-Frendscho, Mary, Fitchburg, WI, United

PATENT ASSIGNEE(S): States (U.S. corporation) Jardieu, Paula M., Berkeley, CA, United States Genentech, Inc., South San Francisco, CA, United

NUMBER DATE

RELATED APPLN. INFO.: PATENT INFORMATION: US 5656273 970812 APPLICATION INFO.: US 95-422748 950414 (8) 18 Jan 1994, now abandoned Continuation of Ser. No. US 94-184083, filed on

DOCUMENT TYPE: **Villa**O

PRIMARY EXAMINER: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Fitts, Renee A.; Teskin, Robin L.; Svoboda, Craig

EXEMPLARY CLAIM: NUMBER OF CLAIMS: 28 8

CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 9 Drawing Figure(s); 5 Drawing Page(s)

₽ This invention concerns a method for the prevention and treatment of parasitic infection by administering an IgE antagonists. The invention further concerns pharmaceutical compositions and bispecific molecules useful in such method.

INVENTOR(S): L15 ANSWER 32 OF 86 USPATFULL ACCESSION NUMBER: 97:70713 USPATFULL

Mosmann, Timothy, Atherton, CA, United States Rennick, Donna, Los Altos, CA, United States PATENT ASSIGNEE(S): Schering Corporation, Kenilworth, N. Method of using interleukin-4 Lee, Frank, Palo Alto, CA, United States Yokota, Takashi, Palo Alto, CA, United States Arai, Ken-ichi, Palo Alto, CA, United States

States (U.S. corporation)

Schering Corporation, Kenilworth, NJ, United

NUMBER DATE

PATENT INFORMATION: APPLICATION INFO.: U US 5656266 970812

APPLICATION INFO: US 96-468734 950606 (8)
RELATED APPLIN. INFO:: Division of Ser. No. US 94-221551, filed on 1 Apr
R94, now abandoned which is a continuation of
Ser. No. US 93-27601, filed on 5 Mar 1993, now which is a continuation of Ser. No. US 90-615902, filed on 20 Nov 1990, now abandoned which is a division of Ser. No. US 86-908215, filed on 17 86-881553, filed on 3 Jul 1986, now abandoned which is a continuation-in-part of Ser. No. US Sep 1986, now patented, Pat. No. US 5017691 which is a continuation-in-part of Ser. No. US 86-843958, filed on 25 Mar 1986, now patented 92-854771, filed on 20 Mar 1992, now abandoned abandoned which is a continuation of Ser. No. US

> DOCUMENT TYPE: (
> PRIMARY EXAMINER:
> ASSISTANT EXAMINER: NUMBER OF DRAWINGS: NUMBER OF CLAIMS: LEGAL REPRESENTATIVE: Lunn, Paul G.; Foulke, Cynthia L.; Gould, James EXEMPLARY CLAIM: continuation-in-part of Ser. No. US 85-799668, filed on 19 Nov 1985, now abandoned Utility Jagannathan, Vasu S. Kemmerer, Elizabeth C. 33 Drawing Figure(s); 24 Drawing Page(s)

Pat. No. US 5552304 which is a

CAS INDEXING IS AVAILABLE FOR THIS PATENT. invention include native human and murine IL-4s, muteins thereof, and nucleic acids which are effectively homologous to disclosed cDNAs, and/or which are capable of coding for mammalian IL-4s and their muteins. Mammalian proteins and muteins thereof, designated interleukin-4s (IL-4s), are provided which exhibit both B cell growth factor activity and T cell growth factor activity. Compounds of the

ij L15 ANSWER 33 OF 86 USPATFULL ACCESSION NUMBER: 97:68158 USPATFULL Vaccine comprising part of constant region of IgE for treatment of IgE-mediated allergic

INVENTOR(S): Uppsala, Sweden reactions Hellman, Lars T., Vaderkvamsgatan 11A, S-753 29

NUMBER DATE

PATENT INFORMATION: US 5653980 970805 WO 9305810 930401 APPLICATION INFO: US 94-198227 940323 (8) WO 92-SE673 920925 940323 PCT 102(e) date 940323 PCT 371 date

NUMBER DATE

ASSISTANT EXAMINER: Lucas, John
LEGAL REPRESENTATIVE: Bacon & Thomas
NUMBER OF CLAIMS: 9 CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) EXEMPLARY CLAIM: PRIMARY EXAMINER: PRIORITY INFORMATION: SE 91-2808 910926 The invention relates to a vaccine, preferably for human use, Feisee, Lila

cells and basophilic leucocytes. against IgE-mediated allergic reactions. The vaccine contains a protein having the entire arnino acid sequence of the contains a protein having the entire arnino acid sequence of the IgE molecule or a structurally stable unit of said amino acid sequence, the protein optionally being coupled to one or more heterologous carrier proteins, and optionally containing an adjuvant. The since the antibodies are not dependent of the antigen specificity of the IgE molecule but will reduce the plasma of allergy subjects. In practice, the vaccine can be used against all types of IgE-mediated allergles produced in connection with granula release from mast physiologically highly active substances which are stored or risk for an allergen-mediated release of the antigen-specific IgE, which thereby strongly reduces the anti-lgE antibodles reduces the free pool of being used for treatment of subjects having different types of lgE-mediated allergles. The increased concentrations of vaccine is injected, with or without adjuvant, to raise the total IgE pool of the subject. Therefore, the vaccine is aimed at concentration of endogenous anti-IgE antibodies in the

L15 ANSWER 34 OF 86 USPATFULL

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PATENT ASSIGNEE(S): KOS Pharmaceutical, Inc., Miami, FL, United
PATENT INFORMATION:
                                                                                                                                                                               INVENTOR(S):
                                                                                                                                                                                                                                                                                          ACCESSION NUMBER:
                                                                                                                                                                                                                                                                                                                               09/090,375
                                                                                                                                                                                                                                   Method of treatment of endogenous, painful gastrointestinal conditions of non-inflammatory,
                                                                                                    States (U.S. corporation)
                                                                                                                                                                                  Theoharides, Theoharis C., Brookline, MA, United
                                                DATE
                                                                                                                                                                                                                                                                                             97:61687 USPATFULL
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APPLICATION INFO.: (
DOCUMENT TYPE:
PRIMARY EXAMINER:
NUMBER OF CLAIMS: ₽ CAS INDEXING IS AVAILABLE FOR THIS PATENT. EXEMPLARY CLAIM: mast cell degranulation-blocking agent. A method for treating endogenous, painful gastrointestinal conditions of non-inflammatory, non-utcerative origin, such as abdominal migraine and irritable bowel syndrome, entails administering a pharmacologically effective amount of a US 94-193597 940209 (8) Weddington, Kevin E. US 5648355 970715

PATENT ASSIGNEE(S): Hoffmann-La Roche Inc., Nutley, NJ, United States INVENTOR(S): ACCESSION NUMBER: 15 ANSWER 35 OF 86 USPATFULL Method to detect protein-protein interactions
Dalton, Stephen, Bloomfield, NJ, United States
Kochan, Jarena P., Verona, NJ, United States
Osborne, Mark A., South Brunswick, NJ, United (U.S. corporation) 97:49515 USPATFULL

# NUMBER DATE

US 95-434730 950504 (8)

US 5637463 970610

NUMBER OF DRAWINGS: LINE COUNT: 1264 S.; Semionow, Raina
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1 PRIMARY EXAMINER: KI ASSISTANT EXAMINER: E LEGAL REPRESENTATIVE: PATENT INFORMATION: US APPLICATION INFO: US 95-DOCUMENT TYPE: Utility Ketter, James Brusca, John S. Johnston, George W.; Rocha-Tramaloni, Patricia

11 Drawing Figure(s); 10 Drawing Page(s)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods are provided for studying protein-protein interactions which require posttranslational modification of one of the proteins. The interaction is detected by reconstituting the activity of a transcriptional activator. This activity is dependent on the interactions between three different proteins. These include two chimetic proteins, one of which must be posttranslationally modified by the activity of the third protein

chimeric proteins contains a transcriptional activation domain fused to a test protein. The second chimeric protein contains a in order for the chimeric proteins to interact. One of the DNA-binding domain of a transcriptional activator fused to the

TITLE: DNA encoding canine immunoglobulin E
INVENTOR(S): Hollis, Gregory F., Westfield, NJ, United States
Patel, Mayur D., Edison, NJ, United States
PATENT ASSIGNEE(S): Merck & Co., Inc., Rahway, NJ, United States
(U.S. corporation) L15 ANSWER 36 OF 86 USPATFULL ACCESSION NUMBER: 97:40892 I 97:40892 USPATFULL

# NUMBER DATE

DOCUMENT TYPE: PATENT INFORMATION:
APPLICATION INFO.: U US 5629415 970513 US 94-336583 941109 (8

> L15 ANSWER 37 OF 86 USPATFULL ACCESSION NUMBER: 97:40835 USPATFULL LINE COUNT: 913
> CAS INDEXING IS AVAILABLE FOR THIS PATENT. LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: 4 NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s) PRIMARY EXAMINER: proteins, cells transformed by the DNA molecules, assays employing the transformed cells, compounds identified by the assays and kits The present invention relates to DNA molecules encoding a canine igE and species-specific regions of the canine ligE constant region. The invention comprises the DNA molecules, proteins encoded by the DNA molecules, antibodies to the containing the DNA molecules or derivatives thereof Scheiner, Toni R. Carty, Christine E.; Tribble, Jack L.

INVENTOR(S): Wiegand, INDENTITY OF United States Gold, Larry, Boulder, CO, United States
PATENT ASSIGNEE(S): NeXstar Pharmaceuticals, Inc., Boulder, CO, immunoglobulin € (lg€) High-affinity oligonucleotide ligands to Wiegand, Torsten W., Boulder, CO, United States

United States (U.S. corporation)

# NUMBER DATE

PATENT INFORMATION: RELATED APPLN. INFO.: APPLICATION INFO. No. US 90-536428, filed on 11 Jun 1990, now abandoned And a continuation-in-part of Ser. No. US 92-964624, filed on 21 Oct 1992, now patented, Pat. No. US 5496938 LN. INFO.: Continuation-in-part of Ser. No. US 91-714131, filed on 10 Jun 1991, now patented, Pat. No. US 5475096 which is a continuation-in-part of Ser. US 94-317403 941003 (8) Ctility US 5629155 970513

LINE COUNT: 1019
CAS INDEXING IS AVAILABLE FOR THIS PATENT. PRIMARY EXAMINER: Zitorner, Stephanie W.
LEGAL REPRESENTATIVE: Swanson & Bratschun, L.L.C.
NUMBER OF CLAIMS: 5 EXEMPLARY CLAIM: ₽ This invention discloses high-affinity oligonucleotide ligands to human Immunoglobulin E (IgE), specifically RNA ligands having the ability to bind to IgE, and the methods for obtaining such ligands. The ligands are capable of inhibiting the interaction of IgE with its receptor.

L15 ANSWER 38 OF 86 USPATFULL ACCESSION NUMBER: antibodies Anti-human IgE monoclonal 97:36299 USPATFULL

INVENTOR(S): Washida, Nachiro, Tochigi, Japan Yoshida, Toshiko, Tochigi, Japan PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Hokkaido, Japan (non-U.S. corporation) Washida, Nachiro, Tochigi, Japan

#### NUMBER DATE

PATENT INFORMATION: US 5625039 970429

APPLICATION INFO: US 94-336569 941109 (8)

RELATED APPLN. INFO:: Continuation of Ser. No. US 92-994503, filed on 21 Dec 1992, now abandoned

# NUMBER DATE

NUMBER OF DRAWINGS: LINE COUNT: 634 NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1 DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Burgess, Ryan & Wayne PRIORITY INFORMATION: JP 91-357005 911224 7 Drawing Figure(s); 7 Drawing Page(s)

> CAS INDEXING IS AVAILABLE FOR THIS PATENT. Fc.epsilon. receptor and further characterized state), the ability to bind to human IgE-producing B cells, the ability to recognize IgE bound to human or canine cell having specifically bind to human immunoglobulin e (lgE) and has a molecular weight of approximately 150,000 determined by SDS-polyacrylamide gel electrophoresis (non-reduced by specific sequences. Monoclonal antibodies are provided which

ACCESSION NUMBER: 97:33851 ( INVENTOR(S): engraftment modulation and enhancement of cellular CDS derivatives and methods of use for cellular 97:33851 USPATFULL

PATENT ASSIGNEE(S): OH, United States (U.S. corporation) Kaplan, David R., Cleveland Heights, OH, United TKB Associates Limited Partnership, Pepper Pike,

Tykocinski, Mark L., Shaker Heights, OH, United

# NUMBER DATE

DOCUMENT TYPE: Unlity
PRIMARY EXAMINER: Cur
LEGAL REPRESENTATIVE: L
NUMBER OF CLAIMS: 25 PATENT INFORMATION: US 5623056 970422
APPLICATION INFO: US 93-174583 931228 (8)
RELATED APPLN. INFO: Continuation of Ser. No. US 89-429401, filed on 31 Oct 1989 which is a continuation-in-part of Ser. No. US 89-323770, filed on 15 Mar 1989, now LINE COUNT: EXEMPLARY CLAIM: CAS INDEXING IS AVAILABLE FOR THIS PATENT. Specific and nonspecific immunomodulation, enhancement of cellular engraffment, and modulation of nonimmune cells are achieved by using various membrane-binding and soluble CD8 compositions. bandoned Cunningham, Thomas M. 8 Lyon & Lyon

L15 ANSWER 40 OF 86 USPATFULL
ACCESSION NUMBER: 97:25123 USPATFULL

INVENTOR(S): Ch basophils States (U.S. corporation) binding to IgE-bearing B cells but not Humanized monoclonal antibodies Chang, Tse W., Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United

# NUMBER DATE

DOCUMENT TYPE: Utility
PRIMARY EXAMINET: Caputa, Anthony C
LEGAL REPRESENTATIVE: Mirabel, Eric P,
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1 PATENT INFORMATION: US 94.328842 941025 (8)
APPLICATION INFO: US 94.328842 941025 (8)
RELATED APPLN. INFO: Continuation of Ser. No. US 89-357483, filed on RELATED APPLN. INFO: Continuation Fine Park No. US 5420251 which is a continuation-in-part of Ser. No. US 88-291068, filed on 28 Dec 1988, now abandoned CAS INDEXING IS AVAILABLE FOR THIS PATENT. bind to the epitopes are useful to treat IgE-mediated allergy. The monoclonal antibodies, Unique antigenic epitopes of IgE (designated ige.bl) which are present on IgE-bearing B lymphocytes but not basophils are described. Monoclonal antibodies which continuation-in-part of Ser. No. US 87-140036 Pat No. US 5422258 which is a which is a continuation-in-part of Ser. No. US 88-226421, filed on 29 Jul 1988, now patented iled on 31 Dec 1987, now abandoned Caputa, Anthony C.

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09/090,375
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antibodies against the paratope of the antibody allergy sufferers. The antibodies may also have the additional therapeutical effects of clearing IgE from circulation by forming immune complexes. Monoclonal can be used to actively immunize allergy sufferers to to reduce or deplete IgE-producing B cells in attain the same results of administering the monoclonal either alone or as cytotoxin-conjugated immunotoxins, can be used

L15 ANSWER 41 OF 86 USPATFULL ACCESSION NUMBER: 97:12178 1

modulation and enhancement of cellular MBER: 97:12178 USPATFULL
CD8 derivatives and methods of use for cellular

engraftment

INVENTOR(S): States Kaplan, David R., Cleveland Heights, OH, United Tykocinski, Mark L., Shaker Heights, OH, United

PATENT ASSIGNEE(S): TKB Associates Limited Partnership, Pepper Pike, OH, United States (U.S. corporation)

# NUMBER DATE

PATENT INFORMATION:
APPLICATION INFO.: U US 5601828 970211

APPLICATION INFO: US 93-112005 930824 (8)
RELATED APPLIN. INFO: Continuation of Ser. No. US 91-691475, filed on RELATED APPLIN. INFO: Continuation of Ser. No. US 5242887 which is a continuation-in-part of Ser. No. US

PRIMARY EXAMINER: DOCUMENT TYPE: 89-323770, filed on 15 Mar 1989, now abandoned Cunningham, Thomas M.

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: 26 26 Lyon & Lyon

EXEMPLARY CLAIM:

CAS INDEXING IS AVAILABLE FOR THIS PATENT

AB Specific and nonspecific immunomodulation, enhancement of cellular engraftment, and modulation of nonimmune cells are achieved by using various membrane-binding and soluble CD8 compositions.

L15 ANSWER 42 OF 86 USPATFULL ACCESSION NUMBER: 97:10129 (

substances response to sulfomethoxozale containing MBER: 97:10129 USPATFULL
Compounds and methods for suppressing an immune

INVENTOR(S) Denver, CO, United States
De La Cruz, Vidal, Westminster, CO, United States
McCall, Catherine, Boulder, CO, United States
Blodgett, James K., Westminster, CO, United

ATENT ASSIGNEE(S) corporation) McLeod, Donald A., Westminster, CO, United States Coretech, Inc., Denver, CO, United States (U.S.

# NUMBER DATE

PRIMARY EXAMINER: Hig LEGAL REPRESENTATIVE: 9 NUMBER OF CLAIMS: 7 EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 15 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1713 PATENT INFORMATION:
APPLICATION INFO.: L DOCUMENT TYPE: **Villity** US 93-118819 930910 (8) Higel, Floyd D. US 5599912 Schwegman, Lundberg, Woessner & Kluth, P.A.

₽ CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides methods of detecting and suppressing an undesired immune response, and agents suitable for use therein. More specifically, the present invention, provides agents and methods for their use, directed at detecting and suppressing an undesired immune response to compositions

L15 ANSWER 43 OF 86 USPATFULL

Idzerda, Rejean, Seattle, WA, United States PATENT ASSIGNEE(S): Immunex Corporation. Seattle, V INVENTOR(S): ACCESSION NUMBER: Park, Linda, Seattle, WA, United States Beckmann, M. Patricia, Pouslbo, WA, United States March, Carl J., Seattle, WA, United States Cosman, David J., Seattle, WA, United States Interleukin-4 receptors Mosley, Bruce, Seattle, WA, United States Immunex Corporation, Seattle, WA, United States 97:10123 USPATFULL

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# NUMBER DATE

(U.S. corporation)

RELATED APPLN. INFO.: APPLICATION INFO.: 1 abandoned No. US 88-265047, filed on 19 Oct 1988, now abandoned which is a continuation-in-part of Ser No. US 89-319438, filed on 2 Mar 1989, now abandoned which is a continuation-in-part of Ser abandoned which is a continuation-in-part of Ser. No. US 89-326156, filed on 20 Mar 1989, now Feb 1990 which is a continuation-in-part of Ser. No. US 89-370924, filed on 23 Jun 1989, now US 93-94669 930720 (8)
Division of Ser. No. US 90-480694, filed on 14 US 5599905

DOCUMENT TYPE:
PRIMARY EXAMINER:
ASSISTANT EXAMINER: NUMBER OF CLAIMS: EXEMPLARY CLAIM: Walsh, Stephen G. Ulm, John D.

NUMBER OF DRAWINGS: 38 Drawing Figure(s); 22 Drawing Page(s) LINE COUNT: 2652
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Mammalian Interleukin-4 receptor proteins, DNAs and expression producing mammalian IL-4 receptors as products of cell culture, are disclosed. A method for suppressing an IL-4-dependent immune or inflammatory response in a mammal, including a human, by administering an effective amount of soluble IL-4 receptor (sIL-4R) and a suitable diluent or carrier. vectors encoding mammalian IL-4 receptors, and processes for 38 Drawing Figure(s); 22 Drawing Page(s)

L15 ANSWER 44 OF 86 USPATFULL
ACCESSION NUMBER: 97:6049 USPATFULL

INVENTOR(S): Method of refolding human IL-13 Culpepper, Janice, Mountain View, CA, United

States McKenzie, Andrew, Redwood City, CA, United States

Dang, Warren, San Jose, CA, United States Zurawski, Gerard, Redwood City, CA, United States PATENT ASSIGNEE(S): Schering Corporation, Kenilworth, NJ, United States (U.S. corporation)

# NUMBER DATE

ASSISTANT EXAMINER: SP LEGAL REPRESENTATIVE: ( NUMBER OF CLAIMS: 10 EXEMPLARY CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 288 Drawing Figure(s); 61 Drawing Page(s) APPLICATION INFO: US 93-12543 930201 (6)
RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 92-933416, filed on 21 Aug 1992, now abandoned LINE COUNT: DOCUMENT TYPE: PATENT INFORMATION: PRIMARY EXAMINER: APPLICATION INFO.: monoclonal, are also provided. Methods of using the compositions for both diagnostic and therapeutic utilities are and fragments thereof. Antibodies, both polyclonal and Nucleic acids encoding human IL-13, and purified IL-13 proteins 4619 Draper, Garnette D.
: Spector, Lorraine M.
IVE: Ching, Edwin P. Ctility 5 US 5596072 970121

ACCESSION NUMBER: 97:1544 L 97:1544 USPATFULL

> PATENT ASSIGNEE(S): INVENTOR(S): States (U.S. corporation) Hou, Jinzhao, South San Francisco, CA, United United States NUMBER DATE Interleukin 4 signal transducers McKnight, Steven L., South San Francisco, CA, Tularik, Inc., So. San Francisco, CA, United

CAS INDEXING IS AVAILABLE FOR THIS PATENT EXEMPLARY CLAIM: NUMBER OF CLAIMS: ASSISTANT EXAMINER: PRIMARY EXAMINER: RELATED APPLN. INFO.: PATENT INFORMATION: US 5591825 970107 APPLICATION INFO: US 94-276099 940715 ( LEGAL REPRESENTATIVE: Flehr, Hohbach, Test, Albritton & Herbert DOCUMENT TYPE: iled on 5 Jul 1994, now abandoned 1813 US 94-276099 940715 Ulm, John Continuation-in-part of Ser. No. US 94-269604, Mertz, Prema @

antibodies. The disclosed pharmaceutical screening methods are particularly suited to high-throughput screening where one or more steps are performed by a computer controlled electromechanical robot comprising an axial rotatable arm. interleukin 4 signal transducer and activator of transcription, IL-4 Stat IL-4 Stat peptides and IL-4 receptor peptides and nucleic acids encoding such peptides find therapeutic uses. The subject compositions include IL-4 Stat and IL-4 receptor proteins, portions thereof, nucleic acids encoding them, and specific portions thereof, nucleic acids encoding them, and specific The invention provides methods and compositions for identifying pharmacological agents useful in the diagnosis or treatment of disease associated with the expression of a gene modulated by an

L15 ANSWER 46 OF 86 USPATFULL ACCESSION NUMBER: 97:1542 USPATFULL

antigens Expression of specific immunogens using viral

Lee, Shaw-Guang L., Villanova, PA, United States
Kalyan, Narender K., Wayne, PA, United States
PATENT ASSIGNEE(S): American Home Products Corporation, Madison, NJ, INVENTOR(S): United States (U.S. corporation) Hung, Paul P., Bryn Mawr, PA, United States

# NUMBER DATE

LEGAL REPRESENTATIVE: Jackson, Richard K.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF CLAIM: 1 PRIMARY EXAMINER: Smit CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: DOCUMENT TYPE: RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 91-805105, PATENT INFORMATION: APPLICATION INFO.: U filed on 11 Dec 1991, now abandoned US 93-169813 931217 US 5591823 970107 2 Drawing Figure(s); 2 Drawing Page(s) œ

chimeric peptides, expression vectors, and transformed hosts are provided as well. These peptides are useful in providing vaccines against the respective antigens and in test kits to detect the exposure to such antigens. Additionally, these peptides or their corresponding antibodies are useful in methods of antigenic sites, wherein a nucleotide sequence substantially the same as that which codes for a foreign epitope is inserted into the nucleotide sequence of an antigenic site. Corresponding Chimeric DNA fragments are provided which include a nucleotide sequence substantially the same as that which codes for the HA surface protein of an influenza A virus having five immunodominant treatment and prevention of the manifestations of exposure to these antigens, including immunotherapy.

L15 ANSWER 47 OF 86 USPATFULL ACCESSION NUMBER: 96:108816 USPATFULL

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DOCUMENT TYPE: Utility
"(MARY EXAMINER: Zitomer, Stephanie W.
BISTANT EXAMINER: Alzel, Amy
GAL REPRESENTATIVE: Fabian, Gary R.; Brookes, Allen A.; Stratford,
₽
                                                NUMBER OF DRAWNINGS: 71 Drawing Figure(s); 48 Drawing Page(s)
                                                                                                       NUMBER OF CLAIMS:
EXEMPLARY CLAIM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PATENT ASSIGNEE(S):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INVENTOR(S):
                        CAS INDEXING IS AVAILABLE FOR THIS PATENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                  RELATED APPLN. INFO.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PATENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09/090,375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          compositions and methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Turin, Lisa M., Redwood City, CA, United States
Fry, Kirk E., Palo Alto, CA, United States
GNEE(S): Genelabs Technologies, Inc., Redwood City, CA,
                                                                                                                                                                                                                                                                                                                                filed on 23 Dec 1992 which is a continuation-in-part of Ser. No. US 91-723618,
                                                                                                                                                                                                                                                                                                                                                                                       continuation-in-part of Ser. No. US 92-996783,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             United States (U.S. corporation)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            States
                                                                                                                                                                                                                                                                                                     filed on 27 Jun 1991, now abandoned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Andrews, Beth M., Maynard, MA, United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cantor, Charles R., Boston, MA, United States
                                                                                                                                                                                                                                                                                                                                                                                                                filed on 17 Sep 1993 which is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence-directed DNA-binding molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Edwards, Cynthia A., Menlo Park, CA, United
                                                                                                                                                                                                                                                                                                                                                                                                                                           N: US 5578444 961126
US 93-171389 931220 (8)
O.: Continuation-in-part of Ser. No. US 93-123936,
                                                                                                                                   5
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test sequence adjacent to a defined protein binding screening sequence. Binding of molecules to these test sequence changes the binding characteristics of the protein molecule to its cognate binding sequence. When such a molecule binds the test sequence the equilibrium of the DNA: protein complexes is disturbed, generating changes in the concentration of free DNA probe. Numerous exemplary target test sequences (SEQ ID NO:1 to SEQ ID NO:0500) are set forth. The assay of the present invention is also useful to characterize the preferred binding sequences of any selected The present invention defines a DNA:protein-binding assay useful for screening libraries of synthetic or biological compounds for their ability to bind DNA test sequences. The assay is versatile in that any number of test sequences can be tested by placing the

monoclonal antibodles which bind to IGE-expressing B cells but not basophils Treating hypersensitivities with anti-IGE

ACCESSION NUMBER: 96:70190 USPATFULL

TENTOR(S): CI States (U.S. corporation) Chang, Tse W., Houston, TX, United States Tanox Biosystems, Inc., Houston, TX, United

NUMBER DATE

RELATED APPLN. INFO.: PATENT INFORMATION: US 5543144 960806 APPLICATION INFO.: US 93-7180 930121 (8) DOCUMENT TYPE: No. US 88-291068, filed on 28 Dec 1985, now abandoned which is a continuation-in-part of Ser. No. US 88-226421, filed on 29 ull 1988, now patemted, Pat. No. US 5422258 which is a continuation-in-part of Ser. No. US 87-140036. PLN. INFO.: Continuation-in-part of Ser. No. US 89-357483, filed on 26 May 1989, now patented, Pat. No. US 5420251 which is a continuation-in-part of Ser. iled on 31 Dec 1987, now abandoned Ctility

> L15 ANSWER 49 OF 86 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. reactions and of reducing circulating IgE using antibodies which bind to secreted IgE and membrane-bound basophils or mast cells. IgE on the surface of IgE-producing B cells but not to IgE on The invention relates to methods of treating allergic

PATENT ASSIGNEE(S) INVENTOR(S): ACCESSION NUMBER: Peptides representing antigenic epitopes of dog IgE present on B cell but not basophil Chang, Tse W., Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United 96:38997 USPATFULL

NUMBER DATE

US 5514776 960507

States (U.S. corporation)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 93-137253, filed on 14 Oct 1993 which is a APPLICATION INFO.: U continuation-in-part of Ser. No. US 93-90527, filed on 9 Jul 1993, now patented, Pat. No. US 5342924 which is a continuation-in-part of Ser. No. US 92-973321, filed on 29 Oct 1992, now patented, Pat. No. US 5254671 which is a continuation-in-part of Ser. No. US 93-515604, filed on 27 Apr 1990, now patented, Pat. No. US 5254670 which is a continuation-in-part of Ser. No. US 90-515604, filed on 27 Apr 1990, now patented, Pat. No. US continuation-in-part of Ser. No. US 88-272243, filed on 16 Nov 1988, now patented, Pat. No. US 5091313 which is a continuation-in-part of Ser. 5274075 which is a continuation-in-part of Ser. No. US 90-468766, filed on 23 Jan 1990, now patented, Part No. US 5260416 which is a continuation-in-part of Ser. No. US 89-369625, filed on 21 Jun 1989 which is a filed on 31 Dec 1987, now abandoned No. US 88-226421, filed on 29 Jul 1988 which is a No. US 88-229178, filed on 5 Aug 1988, now abandoned which is a continuation-in-part of Ser. uation-in-part of Ser. No. US 87-140036, US 94-326767 941020 @

DOCUMENT TYPE: Utility
PRIMARY EXAMINE: Adams, Donald E.
LEGAL REPRESENTATIVE: Mirabel, Eric P.
NUMBER OF CLAIMS: 1 ₽ CAS INDEXING IS AVAILABLE FOR THIS PATENT. EXEMPLARY CLAIM:

soluble form of dog IgE. The peptides representing the epitopes associated with the anchor domain of dog IgE can be used to Antigeric epitopes associated with the extracellular segment of the domain which anothors dog immunoglobulin-epsilon, to the B cell membrane are disclosed. The epitopes are present on dog IgE-bearing B cells but not basophils or the secreted, generate antibodies against these regions

L15 ANSWER 50 OF 86 USPATFULL ACCESSION NUMBER: Methods for the selective suppression of an 96:36286 USPATFULL

INVENTOR(S): Byers, Vera S., San Francisco, CA, United States
Baldwin, Robert W., Long Eaton, England
PATENT ASSIGNEE(S): Allergene, Inc., San Mateo, CA, United States (U.S. corporation)

immune response to dust mite der Pi

NUMBER DATE

PATENT INFORMATION: US 5512283 960430
APPLICATION INFO: US 93-123746 930916 (8)
RELATED APPLIN. INFO: Continuation-in-part of Ser, No. US 93-11050, filed on 29 Jan 1993, now abandoned And Ser, No. US 92-849222. filed on 10 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 90-549184, filed on 6 Jul 1990, now abandoned

LEGAL REPRESENTATIVE: Mirabel, Eric P.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1

PRIMARY EXAMINER:

Hutzell, Paula K.

LEGAL REPRESENTATIVE: Pennie & Edmonds
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF CAIM: 1 NUMBER OF DRAWINGS: 47 Drawing Figure(s); 28 Drawing Page(s)
LINE COUNT: 2757 CAS INDEXING IS AVAILABLE FOR THIS PATENT DOCUMENT TYPE: reactivity with respect to the immunogen of interest.
Antibodles or antibody-like or antibody derived from sensitized human lymphocytes produced by cell fusion with heterohybridomas, or by DNA cloning and expression. Other compositions include T cell receptor (TCR) molecules, obtained preparations. Immunoreactive peptides corresponding to some or all of the complementarity determining regions or hypervariable which are exogenous antigens or allergens. Subject compositions include antibody, antibody may be grafted into a framework region of any species, particularly human. They also include human antibodles, Fab, and complementarity determining region peptides (CDRs) which The present invention provides novel compositions and methods useful in the modulation or selective suppression of host immune regions of the TCR are also employed. either from T cell clones or hybridomas or as purified TCR derived, and antibody-like molecules of primary antigen responses to an immunogen of interest, particularly to immunogens derived molecules include antibody fragments such as

L15 ANSWER 51 OF 86 USPATFULL ACCESSION NUMBER: 95:110431 USPATFULL mast cells mediator release from basophils and Method of Inhibiting pro-inflammatory

INVENTOR(S): Kuna, Piotr, Port Jefferson, NY, United States
Kaplan, Allen P., St. James, NY, United States
PATENT ASSIGNEE(S): The Research Foundation of State University of
New York, Stony Brook, NY, United States (U.S. corporation)

NUMBER DATE

APPLICATION INFO: US 93-31772 930315 (
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Sayala, Chhaya D.
LEGAL REPRESENTATIVE: Fish & Richardson
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1 ₽ LINE COUNT: NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s) CAS INDEXING IS AVAILABLE FOR THIS PATENT. PATENT INFORMATION: treat an inflammatory disease in a mammal, comprising administering to the mammal a therapeutically effective amount of one or more of the following proteins, MIP-1.alpha., MIP-1.beta., CTAP-III, or IP-10. from basophils or mast cells to A method of Inhibiting pro-inflammatory mediator release US 93-31772 930315 (8) US 5474983 951212

INVENTURIO,
PATENT ASSIGNEE(S): Tanox Biosys
States (U.S. corporation) L15 ANSWER 52 OF 86 USPATFULL ACCESSION NUMBER: expressing B lymphocytes or basophlls
Chang, Tse-wen, Houston, TX, United States
GNEE(S): Tanox Biosystems, Inc., Houston, TX, United bind to soluble IGE but do not bind IGE on IGE Monoclonal antibodles that 95:82354 USPATFULL

NUMBER DATE

RELATED APPLN. INFO.: PATENT INFORMATION: APPLICATION INFO.: L filed on 28 Dec 1988, now abandoned which is a continuation-in-part of Ser. No. US 88-226421, US 89-320294 890306 (7)

O.: Continuation-in-part of Ser. No. US 88-291068, US 5449760 950912

DOCUMENT TYPE: Utility
PRIIMARY EXAMINER: Hutzell, Paula
LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Giulio A.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1 PATENT INFORMATION: US 5428133 950627
APPLICATION INFO: US 91-809034 911211 (7)
RELATED APPIU, INFO: Continuation of Ser, No. US 88-291088, filed on 28 Dec 1988, now abandoned which is a continuation-in-part of Ser, No. US 88-226421, filed on 29 Jul 1988 which is a continuation-in-part of Ser, No. US 87-140038, reprinting the continuation-in-part of Ser, No. US 87-140038. PATENT INFORMATION: US 83-APPLICATION INFO.: US 93-POCLUMENT TYPE: Utility PATENT ASSIGNEE(S): Tanox Biosys
States (U.S. corporation) PRIMARY EXAMINER: Warden, Jill ASSISTANT EXAMINER: Davenport, A. M. LEGAL REPRESENTATIVE: Fish & Richardson NUMBER OF CLAIMS: 15

EXEMPLARY CLAIM: 1 LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Jr., Giulio A. NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1 L15 ANSWER 54 OF 86 USPATFULL INVENTOR(S): L15 ANSWER 53 OF 86 USPATFULL ACCESSION NUMBER: 95:67213 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. LINE COUNT: INVENTOR(S): ACCESSION NUMBER: CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) CAS INDEXING IS AVAILABLE FOR THIS PATENT. PRIMARY EXAMINER: DOCUMENT TYPE: 09/090,375 TENT ASSIGNEE(S): antibodies do not induce histamine release by basophils or mast cells. human, by administering to the human a therapeutically effective amount of purified or recombinant platelet factor 4 (PF4), a PF4 analog, or a peptide fragment of PF4 or the analog. Antibodies that bind soluble IgE but not IgE on the surface of B lymphocytes or basophils are described. The from basophils or mast cells in the A method of treating an inflammatory disease in a mammal, e.g., a human, by InhIbiting pro-inflammatory mediator release antibody which binds to secreted IgE and membrane-bound IgE expressed by IgE-expressing B cells but notto IgE bound to FC receptors on basophils diseases Kuna, Piotr, Port Jefferson, NY, United States
Kaplan, Allen P., St. James, NY, United States
GNEE(S): The Research Foundation of State University of corporation) New York, Albany, NY, United States (U.S. No. US 87-140036, filed on 31 Dec 1987, now filed on 29 Jul 1988, now patented, Pat. No. US filed on 31 Dec 1987, now abandoned bandoned NUMBER DATE NUMBER DATE Use of platelet factor 4 to treat inflammatory Chimeric anti-human IgE-monoclonal 1266 Chang, Tse-wen, Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United N: US 5436222 950725 US 93-31773 930315 (8) Of life Hutzell, Paula K. 95:58235 USPATFULL

LEGAL REPRESENTATIVE: Pennie & Edmonds NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 17 Drawing Figure(s); 12 Drawing Page(s)

DOCUMENT TYPE: PRIMARY EXAMINER:

Saunders, David

LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Jr., Giulio A. NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1 NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 11 Sun, Bill N., Houston, TX, United States
Sun, Cecily R., Houston, TX, United States
PATENT ASSIGNEE(S): Tanox Biosystems, Inc., Houston, TX, United L15 ANSWER 58 OF 86 USPATFULL ACCESSION NUMBER: 94:93425 CAS INDEXING IS AVAILABLE FOR THIS PATENT. DOCUMENT TYPE: PRIMARY EXAMINER: APPLICATION INFO.: PATENT INFORMATION: INVENTOR(S): ACCESSION NUMBER: L15 ANSWER 57 OF 86 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT LEGAL REPRESENTATIVE: Mirabel, Eric P.; De Conti, Jr., Givlio A. basophils in vitro. basophils are described that bind to unique antigenic epitopes of IgE (designated ige.bl) which are present on IgE-bearing B cells but not basophils recognize the paratope of monoclonal antibodies specific for unique antigenic epitopes of IgE (designated ige.bl) which are present on membrane-bound IgE-expressed by bearing B binding of IgE to mast cells and are described. The monoclonal antibodies block cells but not on IgE bound to Fc.epsilon.R on Anti-idiotypic monoclonal antibodies that Methods of producing monoclonal antibodies to IgE-bearing B cells but not basophils
Chang, Tse-wen, Houston, TX, United States the parotope of antibodies which bind States (U.S. corporation) continuation-in-part of Ser. No. US 87-140036, filed on 31 Dec 1987, now abandoned filed on 29 Jul 1988 which is a NUMBER DATE Anti-idiotype antibodies specific for 1365 1110 US 89-357483 890526 (7) Hutzell, Paula K. US 5420251 950530 Hutzell, Paula K. 95:47846 USPATFULL art of Ser. No. US 88-226421

AS INDEXING IS AVAILABLE FOR THIS PATENT.

AS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to the measurement of soluble leukocyte surface markers, soluble T cell growth factor receptors, soluble complement receptors, soluble T cell differentiation antigens, or related soluble molecules or fragments thereof, and the use of such measurements in the diagnosis and therapy of diseases and disorders. The invention is also directed to the measurement of soluble CD35 (SCD35) or fragments thereof, and the use of such measurements in detecting disease or disorders. A polyclornal sandwich assay is provided for the detection and/or measurement of total leukocyte markers or fragments thereof, and the use of such measurements in the detection and diagnosis of diseases or disorders. The term "total" leukocyte marker used therein refers to the total amount of a leukocyte marker used sample, including that present in membrane and intracellular compartments and extracellular soluble compartments and extracellular soluble compartments of a total leukocyte marker can be used to determine the approximate amount in a body fluid sample of leukocytes positive marker and the amount of the soluble form of the leukocyte marker and a comparison of the measured levels. relates to the measurement of both the amount of total leukocyte for the leukocyte marker. In a further embodiment, the invention

INVENTOR(S): CH PATENT ASSIGNEE(S): L15 ANSWER 56 OF 86 USPATFULL
ACCESSION NUMBER: 95:50082 USPATFULL basophils lgE-monoclonal antibodies States (U.S. corporation) which binds to IgE on IgEabearing B cells but not Methods for producing high affinity anti-human Chang, Tse-wen, Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United

PATENT ASSIGNEE(S):

States (U.S. corporation)
The Regents of the University of California,
Cakland, CA, United States (U.S. corporation)

NUMBER DATE

Zsebo, Krisztina, Woodside, CA, United States 3NEE(S): Cell Genesys, Inc., Foster City, CA, United

Roberts, Margo R., San Francisco, CA, United

INVENTOR(S):

transduction pathways

Chimeric chains for receptor-associated signal

94:93425 USPATFULL

Capon, Daniel J., Hillsborough, CA, United States Weiss, Arthur, Mill Valley, CA, United States Ining, Brian A., San Francisco, CA, United

#### NUMBER DATE

PATENT INFORMATION: US 5422258 950606
APPLICATION INFO: US 88-226421 880729 (7)
RELATED APPLI, INFO: Continuation-in-part of Ser. No. US 87-140036, filled on 31 Dec 1987, now abandoned

PRIMARY EXAMINER: Hill, Jr., Robert J.
ASSISTANT EXAMINER: Wang, Gian P.
LEGAL REPRESENTATIVE: Rowland, Bertram I.

DOCUMENT TYPE:

PATENT INFORMATION: US 5359046 941025
APPLICATION INFO: US 92-988194 921209 (7)
RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 90-627643,

filed on 14 Dec 1990, now abandoned

Chimeric antibodies which bind to unique

PRIMARY EXAMINER: RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 88-291068, filed on 28 Dec 1988, now abandoned which is a

APPLICATION INFO: US 90-610494 901107 (7)
RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 88-434398, filed on 9 Nov 1989, now patented, Pat. No. US

5292636 which is a continuation-in-part of Ser. No. US 83-254551, filted on 8 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 87-20819, filted on 2 Mar 1887, now patented, Pat No. US 5006459 which is a

continuation-in-part of Ser. No. US 86-846230, filed on 31 Mar 1986, now abandoned

PATENT INFORMATION:

US 5426029 950620

Kung, Patrick C., Lexington, MA, United States
PATENT ASSIGNEE(S): T Cell Diagnostics, Inc., Woburn, MA, United

Tian, Wei-Tao, Allston, MA, United States

States (U.S. corporation)

NUMBER DATE

INVENTOR(S):

leukocyte surface antigens

Therapeutic and diagnostic methods using Rittershaus, Charles W., Malden, MA, United

95:54300 USPATFULL

L15 ANSWER 55 OF 86 USPATFULL ACCESSION NUMBER: 95:54300

IgE-bearing B lymphocytes but not basophils are

antigenic epitopes of IgE (designated ige.b1) which are present on

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09/090,375
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NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: ヹ

41 Drawing Figure(s); 10 Drawing Page(s)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Chimeric proteins and DNA sequence encoding chimeric proteins are provided, where the chimeric proteins are characterized by an extracellular domain capable of binding to a ligand in a non-MHC functions relating to the signalling pathway. A wide variety of extracellular domains may be employed as receptors, where such domains may be naturally occurring or synthetic. The chimeric DNA Binding of ligand to the extracellular domain results in transduction of a signal and activation of a signaling pathway in the cell, whereby the cell may be induced to carry out various capable of activating a signaling pathway. The extracellular domain and cytoplasmic domain are not naturally found together. cell types. hematopoietic stem cells as precursors to a number of important sequences may be used to modify lymphocytes as well as restricted manner, a transmembrane domain and a cytoplasmic domain

5 ANSWER 59 OF 86 USPATFULL CESSION NUMBER: 94:75603 UESTION NUMBER: 94:75603 UESTION NUMBER: 94:75603 USPATFULL

immunoglobulin anchoring peptides and Extracellular segments of human .epsilon. 94:75603 USPATFULL

INVENTOR(S): CH PATENT ASSIGNEE(S): antibodies specific therefor

3): Chang, Tse W., Houston, TX, United States
SIGNEE(S): Tanox Biosystems, Inc., Houston, TX, United States (U.S. corporation)

#### NUMBER DATE

APPLICATION INFO.: DISCLAIMER DATE: PATENT INFORMATION: US 93-90527 930709 (8) 20090225 US 5342924 940830

RELATED APPLN. INFO.:

PLIN. INFO.: Continuation-in-part of Ser. No. US 92-973321, filled on 29 Oct 1992, now patented, Part No. US 5254671 which is a continuation-in-part of Ser. No. US 90-515604, filled on 27 Apr 1990, now patented, Part No. US 5274075 which is a continuation-in-part of Ser. No. US 90-468766, filed on 5 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 88-226421, filed on 29 Jun 1988 which is a abandoned which is a continuation-in-part of Ser. No. US 88-272243, filed on 18 Nov 1988, now patented, Pat. No. US 5091313 which is a continuation-in-part of Ser. No. US 88-229178, continuation-in-part of Ser. No. US 87-140036 5260416 which is a continuation-in-part of Ser. No. US 89-369625, filed on 21 Jun 1989, now filed on 23 Jan 1990, now patented, Pat No. US

filed on 31 Dec 1987, now abandoned DOCUMENT TYPE: Utility PRIMARY EXAMINER: Chan, Christina Y.

ASSISTANT EXAMINER: EN LEGAL REPRESENTATIVE: I NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1 Chan, Christina Y.
Eisenchenk, F. Christopher
E: Mirabel, Eric P.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Antigenic epitopes associated with the extracellular segment of AB the domain which anchors immunoglobulins to the B cell membrane are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophilis or the secreted, soluble form of IgE. Three different isoforms of the C-terminal segment of the human epsilon, chain resulting from afternative mRNA splicings in the membrane exon region are disclosed, one of which is secreted and not membrane-bound.

L15 ANSWER 60 OF 86 USPATFULL ACCESSION NUMBER: antibodies which bind to the Chimeric monoclonal 94:20299 USPATFULL

extracellular segment of the membrane-bound

INVENTOR(S): C
PATENT ASSIGNEE(S): States (U.S. corporation) domain of a human membrane-bound immunoglobulin Chang, Tse W., Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United

# NUMBER DATE

APPLICATION INFO.: DISCLAIMER DATE: PATENT INFORMATION: US 93-3839 930111 (8) 20090107 US 5292867 940308

RELATED APPLN. INFO.: Jan 1992, now abandoned which is a division of Ser. No. US 88-272243, filed on 16 Nov 1988, now Continuation of Ser. No. US 92-817918, filed on 6

atented, Pat No. US 5091313

DOCUMENT TYPE: Utility
PRINARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Dubrule, Chris
LEGAL REPRESENTATIVE: Mirabel, Eric P.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1

CAS INDEXING IS AVAILABLE FOR THIS PATENT. LINE COUNT NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) 655

epitopes associated with the anchor domain of IgE can be used to selectively destroy IgE-bearing lymphocytes, thus blocking Antigenic epitopes associated with the extracellular segment of the domain which anchors immunoglobulins to the B cell membrane are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophils or the secreted, soluble form of example, antibodies or immunotoxins specific for the IgE. The epitope can be exploited for therapy and diagnosis. For

L15 ANSWER 61 OF 86 USPATFULL

IgE-mediated allergic reactions

ACCESSION NUMBER: Allergen-thymic hormone conjugates for 94:1209 USPATFULL

INVENTOR(S): W
PATENT ASSIGNEE(S): treatment of IgE mediated allergles
);
Wojdani, Aristo, Los Angeles, CA, United States
);
NEE(S); Allergy Immuno Technologies, Inc., Newport Beach, CA, United States (U.S. corporation)

# NUMBER DATE

RELATED APPLN. INFO: Division of Ser. No. US 90-534237, filed on 7 Jun 1990, now patented, Pat No. US 5116612 which is a division of Ser. No. US 87-65310, filed on 23 PATENT INFORMATION: APPLICATION INFO.: U v: US 5275814 940104 US 91-728185 910710 (

DOCUMENT TYPE: Jun 1987, now patented, Pat. No. US 4946945 ¥ilia Vilia

PRIMARY EXAMINER: Kim,
LEGAL REPRESENTATIVE: Q
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1,8 NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s) 837 Kim, Kay K. E: Quinton, James A.; Frisenda, Jr., Frank

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A protein conjugate or mixture useful in immunotherapy composed of a biological response modifier (BRM) and an allergen is disclosed. In use the protein conjugate or mixture is combined with a pharmaceutically acceptable carrier. Cytokines, bacterial, fungal and viral immunopotentiators and thymus hormones are disclosed as suitable BRM's for use in the invention.

L15 ANSWER 62 OF 86 USPATFULL ACCESSION NUMBER: 93:93905 Antigenic epitopes present on membrane-bound but 93:93905 USPATFULL

PATENT ASSIGNEE(S): INVENTOR(S) not secreted IgE States (U.S. corporation) Chang, Tse-wen, Houston, TX, United States
S): Tanox Biosystems, Inc., Houston, TX, United

# DATE

PATENT INFORMATION: US 5260416 931109

APPLICATION INFO.: US 90-468766 900123 (7)

RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 89-369625, filed on 21 Jun 1989, now abandoned which is a continuation-in-part of Ser. No. US 88-272243, filed on 16 Nov 1986, now patented, Pat No. US abandoned which is a continuation-in-part of Ser.
No. US 88-226421, filed on 29 Jul 1988 which is a
continuation-in-part of Ser. No. US 87-140036,
filed on 31 Dec 1987, now abandoned No. US 88-229178, filed on 5 Aug 1988, now 5091313 which is a continuation-in-part of Ser.

DOCUMENT TYPE:

LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Jr., Giulio A. NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1 PRIMARY EXAMINER: ∟ee, Lester L.

LINE COUNT NUMBER OF DRAWINGS: 4 Drawing Figure(s); 3 Drawing Page(s) CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IgE. The epitope can be exploited for therapy and diagnosis. For example, antibodies or immunotoxins specific for the epitopes associated with the anchor domain of IgE can be used to Antigenic epitopes associated with the extracellular segment of the domain which archots immunoglobulins to the B cell membrane are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophils or the secreted, soluble form of selectively destroy IgE-bearing lymphocytes, thus blocking

L15 ANSWER 63 OF 86 USPATFULL ACCESSION NUMBER: 93:87456 USPATFULL

IgE-mediated allergic reactions

HITE anchoring peptides and antibodies specific therefor Extracellular segments of human e immunoglobulin

PATENT ASSIGNEE(S) INVENTOR(S) States (U.S. corporation) Chang, Tse W., Houston, TX, United States Tanox Biosystems, Inc., Houston, TX, United

#### NUMBER DATE

PATENT INFORMATION: US 5254671 931019
APPLICATION INFO: US 92-973321 921029 (7)
RELATED APPLN INFO: Continuation-in-part of Ser. No. US 90-515604,

filed on 27 Apr 1990, now abandoned

NUMBER OF CLAIMS: EXEMPLARY CLAIM: PRIMARY EXAMINER: Chan, Y. Christina ASSISTANT EXAMINER: Eisenchenk, F. C. LEGAL REPRESENTATIVE: Mirabel, Eric P. CAS INDEXING IS AVAILABLE FOR THIS PATENT. DOCUMENT TYPE: 1331

₽ Antigenic epitopes associated with the extracellular segment of the domain which anchors immunoglobulins to the B cell membrane are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophils or the secreted, soluble form of IgE. The epitopes can be exploited for therapy and diagnosis. For example, antibodies of immunotoxins specific for the epitopes associated with the anchor domain of IgE can be used to blocking IgE-mediated allergic reactions. Three different isoforms of the C-terminal segment of the human inepsilon, chain resulting from alternative mRNA splicings in the membrane exon region are disclosed, one of which is secreted and selectively destroy or downregulate IgE-bearing lymphocytes, thus

L15 ANSWER 64 OF 86 USPATFULL ACCESSION NUMBER: Method of making antibodies to antigenic epitopes of IGE present on B cells but not basophil cell surface or secreted, 93:85018 USPATFULL

not membrane-bound.

INVENTOR(S):

PATENT ASSIGNEE(S): Tanox Biosys
States (U.S. corporation) Chang, Tse W., Houston, TX, United States Tanox Biosystems, Inc., Houston, TX, United

PATENT INFORMATION: US 525240, C. APPLICATION INFO: US 92-817916 920106 (7)
APPLICATION INFO: Division of Ser. No. US 88-272243, filed on 16

DATE

ACCESSION NUMBER: 93:61035 ASSISTANT EXAMINER: Huizell, Paula
LEGAL REPRESENTATIVE: Mirabel, Eric P.
NUMBER OF CLAIMS: 1

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) PATENT INFORMATION: US 5231026 930727 PATENT ASSIGNEE(S): INVENTOR(S) CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Specific and nonspecific immunomodulation, enhancement of cellular engraftment, and modulation of nonimmune cells are achieved by NUMBER OF CLAIMS: EXEMPLARY CLAIM: 10 PATENT INFORMATION: US 5242687 930907 APPLICATION INFO:: US 91-691475 910425 (7) L15 ANSWER 65 OF 86 USPATFULL
ACCESSION NUMBER: 93:74071 USPATFULL RELATED APPLN. INFO.: PATENT ASSIGNEE(S): INVENTOR(S): CAS INDEXING IS AVAILABLE FOR THIS PATENT. PRIMARY EXAMINER: DOCUMENT TYPE RIMARY EXAMINER: Nucker, Christine M.
SISTANT EXAMINER: Cunningham, T.
LGAL REPRESENTATIVE: Lyon & Lyon
LUMBER OF CLAIMS: 7 A method for producing antibodies specific for antigenic associated with the extracellular segment of the domain which anchors immunoglobulins to the B cell membrane is disclosed. The using various membrane-binding and soluble CD8 compositions. in the secreted, soluble form of IgE. are present on IgE-bearing B cells but not basophils or epitopes recognized by the antibodies of the invention DNA encoding murine-human chimeric antibodies specific for antigenic epitopes of IgE present on the extracellular segment of the membrane domain of membrane-bound continuation-in-part of Ser. No. US 89-323770, filed on 15 Mar 1989, now abandoned 31 Oct 1989, now abandoned And a OH, United States (U.S. corporation) response involving T-cells using CD8-bearing Nov 1988, now patented, Pat. No. US 5091313 which is a continuation-in-part of Ser. No. US 88-229178, filed on 5 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US States (U.S. corporation) States antigen presenting cells continuation-in-part of Ser. No. US 87-140036, 88-226421, filed on 29 Jul 1988 which is a Kaplan, David R., Cleveland Heights, OH, United filed on 31 Dec 1987, now abandoned NUMBER DATE NUMBER DATE Method of reducing cellular immune Chang, Tse W., Houston, TX, United States **1**083 693 Tykocinski, Mark L., Shaker Heights, OH, United TKB Associates Limited Partnership, Cleveland, Tanox Biosystems, Inc., Houston, TX, United Continuation of Ser. No. US 89-429401, filed on Lacey, David L. 93:61035 USPATFULL

> L15 ANSWER 67 OF 86 USPATFULL
> ACCESSION NUMBER: 93:46584 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF CLAIMS: EXEMPLARY CLAIM: PRIMARY EXAMINER: Lacey, David L.
> ASSISTANT EXAMINER: Hutzell, Paula
> LEGAL REPRESENTATIVE: Mirabel, Eric P. RELATED APPLN. INFO.: DOCUMENT TYPE: APPLICATION INFO .: IgE. DNA constructs encoding chimeric antibodies
> with murine variable regions and human constant regions, which
> bind to this epitope, can be produced and expressed in transfected are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophils or the secreted, soluble form of Antigenic epitopes associated with the extracellular segment of the domain which anchors immunoglobulins to the B cell membrane 88-226421, filed on 29 Jul 1988, now abandoned which is a continuation-in-part of Ser. No. US 87-140036, filed on 31 Dec 1987, now abandoned 88-229178, filed on 5 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US is a continuation-in-part of Ser. No. US Nov 1988, now patented, Pat. No. US 5091313 which US 92-818781 920106 (7) Division of Ser. No. US 88-272243, filed on 16

TITLE: Method for Inhibiting IgE production
INVENTOR(S): Levine, Alan D., Ballwin, MO, United States
Collins, Paul W., Deerfield, IL, United States
PATENT ASSIGNEE(S): G. D. Searle & Co., Chicago, IL, United States (U.S. corporation)

# NUMBER DATE

RELATED APPLN. INFO.:

PATENT INFORMATION: US 5218139 930608 APPLICATION INFO: US 92-892870 920603 (7)

##STR1## or a pharmaceutically acceptable non-toxic salt thereof, in which R is hydrogen, C.sub 1.C.sub 5 alkyl, C.sub 3.C.sub 8 cycloalkyl, phenyl, or mono, di- or th-substituted phenyl in which the substituents are selected form the group consisting of bromo, chloro, fluoro, iodo, C.sub 1.C.sub 5 alkyl, hydroxy, nitro, acetyl, alkoxy, carboxy, acetoxy, amino, mono- or di- alkyl amino, amido and acetamido; R.sub 1 and R.sub 2 independently are hydrogen or C.sub 1.C.sub 5 alkyl, nsub 3, n.sub 4, n.sub 5, n.sub 6, n.sub 7, and n.sub 8 independently are zero or one, when n's are zeros, R.sub 3 and R.sub 8 together, R.sub 4 and R.sub 8 together, R.sub 5 and R.sub 8 together, R.sub 7, and R.sub 8 together, and R.sub 7 and R.sub 8 CAS INDEXING IS AVAILABLE FOR THIS PATENT

AB A method is described for inhibiting IgE production

which comprises administering, in an amount effective to

inhibit IgE production, a prostaglandin of the formula: EXEMPLARY CLAIM: LEGAL REPRESENTATIVE: Williams, Roger A.; Matukaitis, Paul D. NUMBER OF CLAIMS: 1 PRIMARY EXAMINER: DOCUMENT TYPE: together are double bonds; when n's are ones, R.sub.3, R.sub.5, R.sub.6 R.sub.7 and R.sub.8 independently are hydrogen, R.sub.4 is hydrogen or methyl, or R.sub.3 and R.sub.4 together, R.sub.4 and R.sub.5 together, or R.sub.5 and R.sub.6 together are methylene. PLN. INFO.: Division of Ser. No. US 90-635000, filed on 27 Dec 1990, now patented, Pat. No. US 5157052 1430 Gerstl, Robert

PATENT ASSIGNEE(S): Research (non-U.S. corporation) L15 ANSWER 68 OF 86 USPATFULL
ACCESSION NUMBER: 93:5465 USPATFULL immunoglobulin E Helm, Birgit A., Loughton, England
GNEE(S): Research Corporation Limited, London, England Polypeptide competitor for Gould, Hannah J., London, England

# NUMBER DATE

PATENT INFORMATION: US 5180805 930119 WO 8800204 880114 APPLICATION INFO: US 91-730530 910715 (7) WO 87-GB466 870702

RELATED APPLN. INFO.: Continuation of Ser. No. US 89-295033, filed on 24 Feb 1989, now abandoned 890224 PCT 371 date 890224 PCT 102(e) date

# NUMBER DATE

PRIMARY EXAMINER: Lacey, David L.
ASSISTANT EXAMINER: Guest, Shelly J.
LEGAL REPRESENTATIVE: Nixon & Vanderhye
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s) DOCUMENT TYPE: PRIORITY INFORMATION: GB 86-16166 860702 A competitor for human Immunoglobulin E (IgE) comprises

PATENT ASSIGNEE(S): Monsanto Company, St. Louis, MO, United States INVENTOR(S): ACCESSION NUMBER: L15 ANSWER 69 OF 86 USPATFULL of the core sequence to bind compete with native IgE for the high-affinity receptor sites on human cells. The polypeptide is indicated for the treatment of Type I hypersensitivity reactions such as hay fever. The polypeptide may be produced synthetically or by expression from Escherichia coli containing a plasmid having a DNA segment coding for the polypeptide. a polypeptide which has a core sequence of seventy-six amino acids which is shown, together with the corresponding DNA sequence coding therefor, in FIG. 2. This amino acid sequence, numbered 1 to 76, corresponds to amino acids 301 to 376 of the epsilon heavy cain of IgE. The polypeptide may also include additional short sequences at the beginning and/or end of the core sequence which are physiologically harmless and do not contribute to the ability Levine, Alan D., Ballwin, MO, United States Collins, Paul W., Deerfield, IL, United States (U.S. corporation) Method for inhibiting IgE production 92:86982 USPATFULL

NUMBER DATE

##STR ## or a pharmaceutically acceptable non-toxic salt thereof, in which R is hydrogen, Csub.1 - Csub.5 alkyl, Csub.3 - Csub.8 cycloalkyl, phenyl, or mono, di- or tri-substituted phenyl in which the substituents, are selected from the group consisting of bromo, chloro, fluoro, iodo, Csub.1 - Csub.5 alkyl, hydroxy, nitro, acetyl, alkoxy, carboxy, acetoxy, amino, mono- or di- alkyl amino, amido and acetamido; Rsub.1 and Rsub.2 independently are hydrogen or Csub.1 - Csub.5 alkyl, n.sub.3, n.sub.4, n.sub.5, n.sub.5, n.sub.5, n.sub.5, and n.sub.8 independently are zeros, Rsub.3 and Rsub.8 together, Rsub.4 and Rsub.5 together, Rsub.5 and Rsub.6 together, and Rsub.5 and Rsub.5 together, and Rsub.5 and Rsub.5 together, and Rsub.5 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones, Rsub.3 and Rsub.5 together are double bonds; when n's are ones are double bonds; when n's are ones are double bonds; when n's are ones are double bonds; when n's are o APPLICATION INFO.: US 90-635000 901227 (
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Gerstl, Robert
LEGAL REPRESENTATIVE: Bennett, Dennis A.
NUMBER OF CLAIMS: 14 EXEMPLARY CLAIM: PATENT INFORMATION: CAS INDEXING IS AVAILABLE FOR THIS PATENT. which comprises administering, in an amount effective to inhibit IgE production, a prostaglandin of the formula: R.sub.6, R.sub.7 and R.sub.8 independently are hydrogen, R.sub.4 is hydrogen or methyl, or R.sub.3 and R.sub.4 together, R.sub.4 A method is described for inhibiting IgE production US 90-635000 901227 (7) US 5157052 921020

PATENT INFORMATION: US 5091313 920225
APPLICATION INFO: US 88-272243 881116 (7)
RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 88-229178, filed on 5 Aug 1988, now abandoned which is a continuation-in-part of Ser. No. US 88-226421, DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Russel, Jeffrey E.
ASSISTANT EXAMINER: Kim, Kay
LEGAL REPRESENTATIVE: Quinton, James; Frisenda, Frank
MBER OF CLAIMS: 10
SMPLARY CLAIMS: 10
MBER OF DRAWNINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 826 PRIMARY EXAMINER: Utility
PRIMARY EXAMINER: Hutzell, Paula
ASSISTANT EXAMINER: Hutzell, Paula
LEGAL REPRESENTATIVE: Mirabel, Eric P.; DeConti, Giulio A.
NUMBER OF CLAIMS: 11
EXAMPLARY CLAIMS: 1 PATENT INFORMATION: US 5116812 920528

APPLICATION INFO: US 90-534237 900607 (7)

RELATED APPLIN, INFO: Division of Ser. No. US 87-65310, filed on 23 Jun

1887, now patented, Pat No. US 4946945, issued INVENTOR(S): L15 ANSWER 72 OF 86 USPATFULL
ACCESSION NUMBER: 91:50317 USPATFULL NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 704 INVENTOR(S) L15 ANSWER 71 OF 86 USPATFULL ACCESSION NUMBER: 92:14939 L CAS INDEXING IS AVAILABLE FOR THIS PATENT. INVENTOR(S): L15 ANSWER 70 OF 86 USPATFULL CAS INDEXING IS AVAILABLE FOR THIS PATENT. PATENT ASSIGNEE(S): PATENT ASSIGNEE(S): ACCESSION NUMBER: 09/090,375 Antigenic epitopes associated with the extracellular segment of the domain which anchors immunoglobulins to the B cell membrane are disclosed. For IgE, the epitopes are present on IgE-bearing B cells but not basophils or the secreted, soluble form of IgE. The epitope can be exploited for diagnosis. with a pharmaceutically acceptable carrier. Cytokines, bacterial, fungal and viral immunopotentiators and thymus hormones are disclosed as suitable BRM's for use in the invention. disclosed. In use the protein conjugate or mixture is combined A protein conjugate or mixture useful in immunotherapy composed of a biological response modifier (BRM) and an aftergen is methylene and R.sub.5 together, or R.sub.5 and R.sub.6 together are Lebrun, Philippe, Namur, Belgium Lebeque, Serge, Brussels, Belgium Masson, Pierre L., Brussels, Belgium not basophil surface Wojdani, Aristo, Los Angeles, CA, United States
 IGNEE(S): Allergy Immuno Technologies, Inc., Newport Beach,
 CA, United States (U.S. corporation) mediated allergies therefor continuation-in-part of Ser. No. US 87-140036, filed on 31 Dec 1987, now abandoned filed on 29 Jul 1988 which is a States (U.S. corporation) on 7 Aug 1990 NUMBER DATE NUMBER Treatment of allergy and composition Immunotherapy agents for treatment of IgE Antigenic epitopes of IgE present on B cell but Saint-Remy, Jean-Marie, Grez-Doiceau, Belgium Chang, Tse-Wen, Houston, TX, United States Tanox Biosystems, Inc., Houston, TX, United 92:14939 USPATFULL DATE 92:42538 USPATFULL

> Rennick, Donna, Los Altos, CA, United States
> PATENT ASSIGNEE(S): Schering Corporation, Madison, NJ, United States INVENTOR(S): L15 ANSWER 73 OF 86 USPATFULL
> ACCESSION NUMBER: 91:40676 USPATFULL 8 EXEMPLARY CLAIM: PRIMARY EXAMINER: Draper, Garnette D.
> LEGAL REPRESENTATIVE: Lane, Aitken & McCann
> NUMBER OF CLAIMS: 26 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 84-651073, filed on 17 Sep 1984, now patented, Pat. No. US PATENT INFORMATION: US 5026545 910625 CAS INDEXING IS AVAILABLE FOR THIS PATENT. DOCUMENT TYPE: APPLICATION INFO.: A pharmaceutical composition comprises an immune complex of an attergen and a purified antibody specific allergen is also described. thereto, the allergen being selected from a specific subclass of antigen which causes immediate hypersensitivity that is mediated by IgE antibody, and a pharmacologically acceptable carrier or diluent. The method of using the compositions in the treatment of immediate hypersensitivity to the COUNT Lee, Frank, Palo Alto, CA, United States Yokota, Takashi, Palo Alto, CA, United States (U.S. corporation) Pathology, Brussels, Belgium (non-U.S. Mosmann, Timothy, Atherton, CA, United States ^rai, Ken-ichi, Palo Alto, CA, United States NUMBER DATE Mammalian interleukin-4 NUMBER DATE US 89-410021 890920 (7) Villa Villa

ASSISTANT EXAMINER: Ellis, Joan
LEGAL REPRESENTATIVE: Macevicz, Stephen C.
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s): 3 Drawing Page(s) CAS INDEXING IS AVAILABLE FOR THIS PATENT. DOCUMENT TYPE: PRIMARY EXAMINER: æ PATENT INFORMATION: US 5017691 910521
APPLICATION INFO: US 86-908215 860917 (6)
DISCLAIMER DATE: 20080507 RELATED APPLN. INFO.: Mammalian proteins and muteins thereof, designated interleukin-4s (L-4s), are provided which exhibit both B cell growth factor activity, Compounds of the invention include native human and mutine IL-4s, muteins thereof, and nucleic acids which are effectively homologous to disclosed cDNAs, and/or which are capable of coding for mammalian It-4s and filed on 3 Jul 1986, now abandoned which is a continuation-in-part of Ser. No. US 86-843958, filed on 25 Mar 1986 which is a filed on 19 Nov 1985, now abandoned continuation-in-part of Ser. No. US 85-799668, Teskin, Robin Continuation-in-part of Ser. No. US 86-881553,

INVENTOR(S): ACCESSION NUMBER: L15 ANSWER 74 OF 86 USPATFULL NUMBER: 91:17203 USPATFULL
Cromolyn binding protein in highly purified form, and methods for the isolation thereof pecht, Israel, Rehovot, Israel Republic of Hemmerich, Stefan, Konstanz, Germany, Federal

> PATENT ASSIGNEE(S): Yeda Research & Development Co., Ltd., Rehovot, Israel (non-U.S. corporation)

PATENT ASSIGNEE(S):

States (U.S. corporation)

Baxter International, Inc., Deerfield, IL, United

nternational Institute of Cellular and Molecular

#### NUMBER DATE

AB Substantially pure cromolyn binding protein is prepared by means of affinity chromatography of cromolyn derivatives bound to insoluble matrices. Aninocromolyn is prepared by a six-step synthesis and amine derivatives thereof are prepared by conventional means. Obtaining a compound having an amine group instead of the OH group at the 2-carbon of the propane link of cromolyn permits many kinds of reactions without interfering with the portion of the cromolyn molecule with causes its pharmacological activity. The cromolyn derivatives can be conjugated to proteins such as BSA by means of glutaraldehyde ASSISTANT EXAMINER: Kushan, Jeff
LEGAL REPRESENTATIVE: Browdy and Neimark
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1 ₽ CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: PRIMARY EXAMINER: DOCUMENT TYPE RELATED APPLN. INFO: Continuation-in-part of Ser. No. US 86-843912, filed on 20 Mar 1986, now patented, Pat. No. US APPLICATION INFO. PATENT INFORMATION: 83-517843, filed on 27 Jul 1983, now abandoned 4683135 which is a continuation of Ser. No. US US 87-78134 870727 Draper, Garnette US 4996296 910226 11 Drawing Figure(s); 9 Drawing Page(s)

PATENT ASSIGNEE(S): INVENTOR(S): ACCESSION NUMBER: L15 ANSWER 75 OF 86 USPATFULL cross-linking and such conjugates can be covalently bound to agarose beads. Cromby binding protein can be isolated by passing lysates of RBL-2H3 cells through chromatographic columns packed with such beads. The cromolyn binding protein can be further purified by means of lectin-agarose columns. Shimizu, Akira, Kyoto, Japan Siraganian, Reuben, Bethesda, MD, United States Benfey, Philip, New York, NY, United States alpha-subunit or fragment thereof GNEE(S): President and Fellows of Harvard College, Cambridge, MA, United States (U.S. corporation) DNA encoding IgE receptor Leder, Philip, Chestnut Hill, MA, United States 90:78170 USPATFULL

PRIMARY EXAMINER: Hazel, Blondel
LEGAL REPRESENTATIVE: Fish & Richardson
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1 PATENT INFORMATION:
APPLICATION INFO.: U AB A cDNA sequence encoding the .alpha.-subunit of human mast CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 4 Drawing Figure(s); 6 Drawing Page(s) DOCUMENT TYPE: cell IgE surface receptor or an IgE binding fragment NUMBER DATE 4: US 4962035 901009 US 87-127214 871201 (7) Offility

PATENT ASSIGNEE(S): INVENTOR(S): L15 ANSWER 76 OF 86 USPATFULL
ACCESSION NUMBER: 90:61504 USPATFULL mediated allergies CA, United States (U.S. corporation) Immunotherapy agents for treatment of IgE Wojdani, Aristo, Los Angeles, CA, United States Allergy Immuno Technologies, Inc., Newport Beach,

#### NUMBER DATE

APPLICATION INFO.: PATENT INFORMATION: V: US 4946945 900807 US 87-65310 870623 (7)

LEGAL REPRESENTATIVE:
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1 APPLICATION INFO: U ACCESSION NUMBER: 90:54678 USPATFULL DOCUMENT TYPE: PRIMARY EXAMINER: CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s) NVENTOR(S): /ENTOR(S): Rup, Bonita J., St. Louis, MO, United States
Kahn, Larry E., St. Louis, MO, United States
PENT ASSIGNEE(S): G. D. Searle & Co., Chicago, IL, United States A protein conjugate or mixture useful in immunotherapy composed of a biological response modifier (BRM) and an allergen is disclosed. In use the protein conjugate or mixture is combined with a pharmaceutically acceptable carrier. Cytokines, bacteriat, fungal and viral immunopotentiators and thymus homones are disclosed as suitable BRM's for use in the invention. (U.S. corporation) therefore lgE-associated determinants, hybrid cell lines producing these antibodies, and use NUMBER DATE Monoctonal antibodies against US 87-59749 870608 (7) Ctility 5 Draper, Garnette US 4940782 900710 Quinton, James; Frisenda, Jr., Frank

ASSISTANT EXAMINER: Moskowitz, Margaret
LEGAL REPRESENTATIVE: Matukaitis, Paul D.; Kanady, Mary Jo
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF CLAIM: NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s) LINE COUNT: antibodies and hybridomas which produce them, which react with IgE when it is unbound and thereby Inhibit IgE The present invention is directed to monoclonal

L15 ANSWER 78 OF 86 USPATFULL ACCESSION NUMBER: 88:40628 binding to mast cells, and react with IgE when it is bound to the B-cell FcE receptor, but do not react with IgE when it is bound to the mast cell FcE

VENTOR(S): Hahn, Gary S., Ṣan Diego, CA, United States (TENT ASSIGNEE(S): Immunetech Pharmaceuticals, San Diego, CA, ited immunoglobulin Fc receptors

Hahn, Gary S., San Diego, CA, United States Method of blocking immune complex binding to

88:40628 USPATFULL

States (U.S. corporation)

NUMBER DATE

Aug 1983, now patented, Pat. No. US 4579840 DOCUMENT TYPE: Utility PATENT INFORMATION: US 4753927 880628

APPLICATION INFO.: US 86-820137 860121 (6)

RELATED APPLN. INFO.: Division of Ser. No. US 83-522739, filed on 12 Otility

PRIMARY EXAMINER. Brown, J. R.
ASSISTANT EXAMINER. Moezie, F. T.
LEGAL REPRESENTATIVE: Lyon & Lyon
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s) CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method of modulating immune responses in mammals by blocking immune complex binding to immunoglobulin Fc receptors is described, comprising administering a peptide comprising a portion selected from the amino acid sequence

-Pro-Asp-Ala-Arg-His-Ser-Thr-Thr-Gln-Pro-Arg-

inflammation or tissue destruction and in reducing the Specific uses in reducing immune complex mediated human allergic response are disclosed.

INVENTOR(S): Ha
PATENT ASSIGNEE(S): L15 ANSWER 79 OF 86 USPATFULL ACCESSION NUMBER Method of blocking immune complex binding to immunoglobulin FC receptors
Hahn, Gary S., San Diego, CA, United States Immunetech Pharmaceuticals, San Diego, CA, 88:39188 USPATFULL

States (U.S. corporation)

NUMBER DATE

CAS INDEXING IS AVAILABLE FOR THIS PATENT. NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1443 NUMBER OF CLAIMS: EXEMPLARY CLAIM: PRIMARY EXAMINER: ASSISTANT EXAMINER: DOCUMENT TYPE PATENT INFORMATION: US 4752601 88062 APPLICATION INFO.: US 86-846930 860401 LEGAL REPRESENTATIVE: Lyon & Lyon RELATED APPLN. INFO.: A method of modulating immune complex mediated immune responses in mammals is described, comprising administering a peptide LN. INFO: Division of Ser. No. US 83-522739, filed on 12 tug 1983, now patented, Pat. No. US 4578840 Brown, J. R. Moezie, F. T. US 4752601 880621

-Thr-lie-Ser-Lys-Ala-Lys-Gly-Gln-Pro-Arg-

comprising the amino acid sequence

Specific uses in reducing immune complex mediated inflammation or tissue destruction and in modulating the proliferation or function of mononuclear cells are disclosed

PATENT ASSIGNEE(S): INVENTOR(S): L15 ANSWER 80 OF 86 USPATFULL CCESSION NUMBER: Biology, Inc., Palo Alto, CA, United States (U.S. Moore, Kevin W., San Bruno, CA, United States Immunosuppressive peptides Martens, Christine L., Menlo Park, CA, United DNAX Research Institute of Molecular and Cellular 88:36021 USPATFULL

NUMBER DATE

ASSISTANT EXAMINER: Kight, John
ASSISTANT EXAMINER: Chan, Christina
LEGAL REPRESENTATIVE: Macevicz, Stephen C.
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
LINE COLINET ₽ APPLICATION INFO.:
DOCUMENT TYPE:
PRIMARY EXAMINER: CAS INDEXING IS AVAILABLE FOR THIS PATENT. PATENT INFORMATION: US 4749685 880607 Immunosuppressive peptides having glycosylation inhibiting factor activity are provided. The peptides include the following sequence and its homologs: ##STR1## US 86-892588 860801 (6)

PATENT ASSIGNEE(S): International Institute of Cellular and Molecular Pathology, Brussels, Belgium (non-U.S. INVENTOR(S): ACCESSION NUMBER: 88:25942
TITLE: Treatment of allergy L15 ANSWER 81 OF 86 USPATFULL Lebrun, Philippe, Namur, Belgium Lebecque, Serge, Brussels, Belgium Masson, Pierre, Brussels, Belgium St. Remy, Jean-Marie, Grez-Doiceau, Belgium 88:25942 USPATFULL

corporation)

NUMBER DATE

PRIMARY EXAMINER: Kight, John
ASSISTANT EXAMINER: Draper, Garnette
LEGAL REPRESENTATIVE: Lane & Aitken
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1 PATENT INFORMATION: APPLICATION INFO.: U CAS INDEXING IS AVAILABLE FOR THIS PATENT DOCUMENT TYPE: antibody thereto, the antibody being present in a molar excess. The antibody is preferably one raised in the patient by administering the allergen in admixture with an In the treatment of allergy, desensitization is effected US 84-651073 840917 US 4740371 Draper, Garnette D. 

INVENTOR(S): HE PATENT ASSIGNEE(S): L15 ANSWER 82 OF 86 USPATFULL ACCESSION NUMBER: 87:56973 receptors Immunotherapeutic polypeptide agents which block immune complex binding to immunoglobulin Fc (U.S. corporation) Hahn, Gary S., San Diego, CA, United States
S): Immunetech, Inc., San Diego, CA, United States 87:56973 USPATFULL

NUMBER DATE

PRIMARY EXAMINER: Utility
PRIMARY EXAMINER: Phillips, Delbert R.
LEGAL REPRESENTATIVE: Lyon & Lyon
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polypeptides which are immunotherapeutic agents which block immune L15 ANSWER 83 OF 86 USPATFULL NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1423 APPLICATION INFO.: DOCUMENT TYPE: PATENT INFORMATION: complex binding to immunoglobulin Fc receptors are produced. l: US 4686282 870811 US 83-522738 830812 (6) Phillips, Delbert R.

INVENTOR(S):

PATENT ASSIGNEE(S): Immunes
(U.S. corporation) ACCESSION NUMBER: Immunotherapeutic polypeptide agents which bind to lymphocyte immunoglobulin FC receptors

Hahn, Gary S., San Diego, CA, United States

GNEE(S): Immunetech, Inc., San Diego, CA, United States 87:53730 USPATFULL

NUMBER DATE

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Phillips, Delbert
LEGAL REPRESENTATIVE: Lyon & Lyon
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1 AB An active site peptide which blocks immune complex binding to For receptors, the peptide having an amino acid sequence selected from NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1495 CAS INDEXING IS AVAILABLE FOR THIS PATENT. APPLICATION INFO.: PATENT INFORMATION: US 4683292 870728 the group consisting of: US 83-522602 830812 (6) Phillips, Delbert R.

A-B-C-D-E-F-G-H-I-J-K-L-M-N-O-P,

A is Arg, Lys, Orn, Gfn, or His;

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Phillips, Delbert R.
LEGAL REPRESENTATIVE: Lyon & Lyon
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
LINE COUNT: 1813 PATENT INFORMATION: US 4628045 861209
APPLICATION INFO: US 86-824945 860203 (6)
RELATED APPLN. INFO: Continuation of Ser. No. US 85-746175, filed on CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A peptide having the amino acid sequence Asp-Ser-Glu-Pro-Arg and capable of blocking immune complex binding to immunoglobulin Fc RELATED APPLN. INFO.: Continuation of Ser, No. US 85-74
18 Jun 1985, now abandoned which is a continuation-in-part of Ser. No. US 83-522601, PATENT ASSIGNEE(S): Immunetech Pharmaceuticals, San Diego, CA INVENTOR(S) L15 ANSWER 85 OF 86 USPATFULL
ACCESSION NUMBER: 86:18655 USPATFULL INVENTOR(S): Hahn, Gary S., Solana Beach, CA, United States PATENT ASSIGNEE(S): Immunetech Pharmaceuticals, San Diego, CA 09/090,375 PRIORITY INFORMATION: ACCESSION NUMBER: L15 ANSWER 84 OF 86 USPATFULL P is Tyr, or Phe. O is Val, Leu, Ile, or Ala; N is Glu, or Asp; M is Pro, Val, Leu, Ile, or Ala; L is Ala, Thr, Ser, or Gly; G is Ser, Thr, Ala, or Gly, F is Thr, Ser, Ala, or Gly E is Lys, Arg, Orn or His; D is Thr, Ser, Ala, or Gly; C is Thr, Ser, Ala, or Gly; B is Ser, Thr, Ala, or Gly; receptors is disclosed. and pharmaceutically acceptable salts thereof K is Ala, Thr, Ser, or Gly; J is Arg, Lys, Orn, or His; I is Pro, Val, Leu, Ile, or Ala; H is Gly, Ala, Thr, Ser, Lys, Arg, or Orn Method of blocking immune complex binding to immunoglobulin Fc receptors
Hahn, Gary S., San Diego, CA, United States States (U.S. corporation) which bind to basophil immunoglobin Fc filed on 12 Aug 1983, now abandoned NUMBER DATE NUMBER DATE Immunotherapeutic antiallergic polypeptide agents 86:69742 USPATFULL ZA 84-6192 840809

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PRIMARY EXAMINER: Utility
PRIMARY EXAMINER: Phillips, Delbert R.
LEGAL REPRESENTATIVE: Lyon & Lyon
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF TOTAL LEGAL REPRESENTATIVE: Conlin, David G.; Linek, Ernest V.

NUMBER OF CLAIMS: 19

EXEMPLARY CLAIM: 1

NUMBER OF CLAIM: 1 CAS INDEXING IS AVAILABLE FOR THIS PATENT. DOCUMENT TYPE:
PRIMARY EXAMINER: INVENTOR(S): Cantor, Harvey I., Boston, MA, United States
Nabel, Gary, Cambridge, MA, United States
PATENT ASSIGNEE(S): Dana Farber Cancer Institute, Boston, MA, United ACCESSION NUMBER: 85:73772 L CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods and peptides for blocking immunogloblin Fc receptors are LINE COUNT NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1475 PATENT INFORMATION:
APPLICATION INFO:
DOCUMENT TYPE: NUMBER OF DRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s) APPLICATION INFO.: PATENT INFORMATION: to particular allergens. The present invention is directed to an in vitro assay, useful in determining the effectiveness of anti-altergy compounds and/or useful in measuring the degree of sensitivity of a patient cell clones States (U.S. corporation) NUMBER DATE NUMBER Assay methods and systems utilizing mast US 83-496543 830520 US 83-522739 830812 (6) A III US 4559310 851217 US 4579840 860401 85:73772 USPATFULL DATE 3 FILE 'MEDLINE' ENTERED AT 17:34:18 ON 03 JAN 1999

allergen and exposure of the sensitized cells to the in the presence and the absence of the substance being tested may be measured thereby giving a direct indication of that substance's ability to interfere with the IgE binding reaction. Another agent is based upon the release of mediators or other compounds from the mast cells after sensitization by the measure of a substance's potential as an anti-allergy agents to be assayed in a number of ways. For example, the binding and dissociation rates of lgE to the mast cells The present invention permits potential anti-allergy

The present invention generally involves the following steps:

(a) sensitizing cloned mast cells to an

allergen in the presence of a test anti-allergy agent; and (b) exposing sensitized mast cells to the

(c) measuring the reaction products of step (b) for an indication of test compound effect.

# => e caplan michael/au

២១១១១១ 1 CAPLAN MALCOLMIAU
1 CAPLAN MARK AJAU
0 -> CAPLAN MICHAELJAU
1 CAPLAN NORMANIAU
7 CAPLAN SANDORJAU CAPLAN SERGIO D/AU

States (U.S. corporation)

sosin howard/au CAPLAN SIDNEY W/AU
CAPLAN STANLEY Z/AU
CAPLAN WILLIAM F/AU
CAPLAR VESNA/AU
CAPLAT SYLVAIN/AU CAPLE ADRIAN/AU

1 SOSIN FRANK H/AU 1 SOSIN GERSHON J/AU 0 --> SOSIN HOWARD/AU SOSIN LAURENTIAU
SOSINSKI CHARLES WILLIAMIAU
SOSINSKI GHARLES WILLIAMIAU
SOSINSKI GREGORY CIAU
SOSINSKI RONALD TIAU
SOSINSKY DAVID JIAU
SOSINSKY EMANUELIAU
SOSINSKY BANDELIAU
SOSINSKY BANDELIAU SOSJURKO VLADIMIR GEORGIEVICH/AU

# => file medline scisearch cancertit biosis embase wpids

FILE 'SCISEARCH' ENTERED AT 17:34:18 ON 03 JAN 1999 COPYRIGHT (C) 1999 Institute for Scientific Information (ISI) (R)

FILE 'CANCERLIT' ENTERED AT 17:34:18 ON 03 JAN 1999

FILE 'BIOSIS' ENTERED AT 17:34:18 ON 03 JAN 1999 COPYRIGHT (C) 1999 BIOSIS(R)

FILE 'WPIDS' ENTERED AT 17:34:18 ON 03 JAN 1999 COPYRIGHT (C) 1999 DERWENT INFORMATION LTD

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# => e caplan michaet/au

3 CAPLAN M ZIAU
1 CAPLAN MARLENEAU
12.-> CAPLAN MICHAELIAU
1 CAPLAN MICHAEL BIAU
41 CAPLAN MICHAEL JIAU
39 CAPLAN MICHAEL SIAU CAPLAN MINDY/AU CAPLAN N/AU CAPLAN N B/AU CAPLAN NEIL A/AU CAPLAN N A/AU

# => s e3 or e4 or e5 or e6

CAPLAN O/AU

16 93 "CAPLAN MICHAEL"/AU OR "CAPLAN MICHAEL B"/AU OR MICHAEL J"/AU OR "CAPLAN MICHAEL S"/AU

## e caplan m/au

3 CAPLAN LOUIS/AU
45 CAPLAN LOUIS RY
196 -> CAPLAN MA
10 CAPLAN M BIAU
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16 CAPLAN M JIAU
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CAPLAN LOUIS R/AU

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FILE MEDLINE, CANCERLIT, BIOSIS, EMBASE, WPIDS' ENTERED AT 17:01:15 ON 03 JAN 1899
L1 2224 S FC.EPSILON RI
L2 62:101 S MAST CELL
L3 65:7 S FC.EPSILON, OR IGE(W)RECEPTOR
L4 1244 S L1 AND (ANTIBOD? OR MONOCLON? OR CHIMERIC(M)ANTIBOD? OR MONOCLON? OR CHIMERIC(M)ANTIBOD? O
L5 404 S L4 AND (ANTIBOD? OR MONOCLON? OR CHIMERIC(M)ANTIBOD? O
L6 101 S L5 AND (ANTIBOD? OR REMOVED)
L7 52 DUP REM L6 (49 DUPLICATES REMOVED)
L8 22 S L7 AND (INHIBIT? OR REDUC? OR AMELIORAT? OR COMPET?)
L9 18456 S BASOPHIL
L10 18494 S L8 OR BASOPHIL
L11 8 S L10 NOT L8
L12 145 S (L2 OR BASOPHIL) AND L3 AND (ANTIBOD? OR MONOCLON? OR BASOPHIL AND L3 AND (ANTIBOD? OR BASOPHIL) AND L3 AND (ANTIBOD? DATES BASOPHIL)
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FILE 'USPATFULL' ENTERED AT 17:27:33 ON 03 JAN 1999
L14 18 S L6 AND (INHIB? OR REDUC? OR AMELIORAT? OR COMPET?)
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FILE 'MEDLINE, SCISEARCH, CANCERLIT, BIOSIS, WPIDS, EMBASE'
ENTERED
AT 17:34:18 ON 03 JAN 1999
ECAPLAN MICHAELIAU
L18 93 S E3 OR E4 OR E5 OR E6
ECAPLAN MAU
L17 481 S E3-E12
L18 0 S (L16 OR L17) AND IGE
L19 0 S (L16 OR L17) AND MAST CELL
L20 0 S (L16 OR L17) AND ALLERG?
E SOSIN HOWARDIAU
L21 68 S E2
L22 0 S L21 AND IGE
L23 0 S L21 AND (MAST CELL OR BASOPHIL) 86 S L12 E CAPLAN MICHAEL/AU E SOSIN HOWARD/AU

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L15

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 17:51:43 ON 03 JAN 1999